

State University of New York at Buffalo
Department of Mechanical and Aerospace Engineering

MAE 476 / 576: Mechatronics
Spring Semester - 2003

Mini Assignment 3 (Part 2)

Theme: List of Stamp Related Resources

Instructor: Dr. Venkat Krovi

Teaching Assistant: Chin-Pei Tang

Assignment #3

Books

1 Programming and Customizing the Basic Stamp

Written by Scott Edwards

2StampWorks

3. Microcontroller Projects Using The Basic Stamp (2nd Edition)

I Williams

4Basic Stamp

von Claus Kuhnel, Klaus

5The Microcontroller Application cook book

von Matt Gilliland

Stamp Accessories

1. [Parallax website](#)
2. [Appexvalue.com](#)
3. [Mouser.com](#)
4. www.dontronics.com
5. gatewayelex.com

Hobby shops selling stamps

1. www.newtype-asylum.com
2. www.census.gov/mrts/www/kbclass.html
3. www.studentcenter.com/where/industry/IN5945.htm - 3k
4. www.robotics.com/arobot

Online Compendia of Stamp Application

Ladder of comutisation

Amit kumar
Person #30567438

Books

- *Practical Electronics for Inventors* by Paul Scherz
- *Stamp II Communications and Control Projects* by Tom Petruzzellis, Thomas Petruzzellis
- *Programming and Customizing the Basic Stamp* by Scott Edwards
- *Microcontroller Projects Using the Basic Stamp 2nd Edition* by Al Williams
- *StampWorks* by Jon Williams, Parallax Inc.
- *The Microcontroller Application Cookbook, Vol. 2* by Matt Gilliland
- *Basic Stamp* by Claus Kuhnel, Klaus Zahnert
- *Programming & Customizing PICmicro Microcontrollers* by Michael Predko, Myke Predko

Books(Cont.)

- **Microcontroller Application Cookbook: Featuring the Basic Stamp 2**

ISBN: 0972015906 Matt Gilliland

- **PIC Microcontroller Project Book**

ISBN: 0071354794 John Iovine

- **SUMO BOT: Build Your Own Remote-Controlled Programmable Sumo-Bot**

ISBN: 0071411933 Myke Predko, Ben Wirz

- [RobotElectronics](#) recommended books

Stamp Websites

- [Basic Stamp SX WebRing](#) site owned by [Shaun Wilson](#).
- [PIC16/17 Microcontroller & BASIC Stamp](#)
- [Basic Stamp FAQ](#)
- [Basic Stamp - Index](#)
- [EME Systems BASIC Stamp Support Index](#)
- [Stamps FAQ PDF](#).
- [Google Stamp Website List](#)

- [OOPic -vs- Basic Stamp / A buyers guide](#)
- [University of Minnesota Basic Stamp Tutorial](#)
- [Inside the Basic Stamp II](#)

Hobby Shops

- [Lynxmotion](#)
- [Raynolds Electronics](#)
- [Dontronics](#)
- [All Electronics Corp.](#)
- [Warburton Technologies](#)
- [Electroflash](#)
- [Scott Edwards](#) Electronics, Inc. (Seetron) (LCDs and VFDs)

Basic Stamp II Related Books

- ❑ Microcontroller Projects Using the Basic Stamp 2nd Edition by Al Williams
- ❑ The Microcontroller Application Cookbook by Matt Gillard and Ken Gracey
- ❑ The Basic Stamp 2-Tutorial and Applications by Peter H. Anderson

Basic Stamp 2 Related Websites

- ❑ Links to application and vendor sites:
<http://www.chipcenter.com/circuitcellar/august01/c0801rr1b.htm>
- ❑ Another page of links:
<http://www.geocities.com/SiliconValley/Orchard/6633/links.html>
- ❑ Applications:
<http://www.nutsvolts.com/stmpindx.htm>
- ❑ Accessories:
<http://www.mouser.com/catalog/612/73.pdf>
- ❑ Accessories:
<http://www.cvtech.com.au/stampsinclass/price.htm>
- ❑ Accessories:
<http://www.arwa-tech.com/electronics.htm>

- Books

Basic Stamp

by Claus Kuhnel, Klaus Zahnert

- Online stamp applications

<http://www.phanderson.com/stamp/tutorial.html>

<http://www.nutsvolts.com/stmpindx.htm>

<http://www.rentron.com/BasicStamp.htm>

- Stamp accessories

<http://www.jameco.com/>

http://www.apexvalue.com/basic_stamp_access.htm

<http://www.allelectronics.com/cgi-bin/category.cgi?category=440&type=store>

- Hobby shops selling stamps

[Wirz Electronics](#) - P.O. Box 457, Littleton, MA 01460-045, 1-888-289-9479
Poloroid Sonar boards, Motor drivers, Robot kits

[Digi-Key Catalog](#) - Electronic parts supplier with full on-line catalog and search capability.

Books on Basic Stamp:

The following are a list of books on Basic Stamp and the website following it gives a brief description of the contents of the book.

- Stamp Works Manual Version 1.2-Jon Williams
http://www.parallax.com/detail.asp?product_id=27220
- Programming and Customising the basic Stamp- Scott Edwards
http://www.parallax.com/detail.asp?product_id=27956
- Micro controller projects with Basic Stamps –Al Williams
http://www.parallax.com/detail.asp?product_id=27952
- Basic Stamp Second Edition –Claus Kühnel and Klaus Zahnert
http://www.parallax.com/detail.asp?product_id=27222
- Microcontroller Application Cookbook – Matt Gilliland
http://www.parallax.com/detail.asp?product_id=28111
- Build your own combat robot –Miles and Carroll
http://www.parallax.com/detail.asp?product_id=28011
- How to build your own prize winning robot – Ed Sobey
http://www.parallax.com/detail.asp?product_id=70003

Online Compendia of Stamp Applications :

- A list of applications from Nuts & Volts Magazine
Most of the applications were written by Scott Edwards
<http://www.nutsvolts.com/stmpindx.htm>
<http://www.nutsvolts.com/ftpindex.htm>
- Gives a brief description and implementation of various interesting projects
<http://www.rentron.com/BasicStamp.htm>
- <http://www.tradetech.co.nz/basic%20stamp/applications.htm>
- <http://www.interaccess.org/arg/arg-list/msg00216.html>
- <http://www.robotics.com/robot/>

Accessories:

<http://www.rfdigital.com/category.htm?category=PARALLAX>

http://www.apexvalue.com/basic_stamp_accessories.htm

http://www.apexvalue.com/basic_stamp_access.htm

http://www.parallax.com/html_pages/products/accessories/accessories.asp

<http://www.mouser.com/catalog/612/73.pdf>

Hobby shops:

<http://www.mcmaster.com/>

<http://www.robotstore.com/>

<http://www.electronickits.com/>

Gives a list of hobby shops in Pittsburg

<http://www.ece.cmu.edu/~ece778/vendors.html>

Gives a comprehensive list of Basic Stamp related sites:

<http://www.geocities.com/SiliconValley/Orchard/6633/links.html>

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MECHATRONICS ASSIGNMENT # 3

Online compendia for stamp applications:

1. NUTVOLTS: A very useful link for stamp applications is at following site: www.nutsvolts.com/stmpindx.htm.
It covers almost all the stamp applications and the files are also given in PDF format for various stamp applications.
2. LOSA: The list of stamp applications is also a very important source for the stamp applications.
www.hth.com/losa/
3. Javelin: This is also a very important site for listing of stamp applications.
www.javelinstamp.com/applications/
4. Earthlink: This is a very useful website giving pictorial information of the stamp applications.
home.earthlink.net/~y2kbc/Electronics/BasicStamp/Index.html
5. Ebay.com: This site provides useful information about stamp applications also.
www.ebay.com or
www.bluegrassshowswithjerry.com/catalog/stamps/b/basic-stamp-applications.asp
6. The other important links for stamp applications are:
www.tradetech.co.nz/basic%20stamp/applications.htm
www.outpost.com/product/3144710
www.phanderson.com/stamp/tutorial.html
www.lynxmotion.com/bsb.htm

Books:

There are number of books available on different websites.

1. Bookpool.com
CLASSIC GUIDE TO CUSTOMIZING BASIC STAMP FOR HOBBYISTS AND DESIGNERS.
<http://www.bookpool.com/.x/4ojn5tqini/sm/0071371923>

2. Robotgames.com
PROGRAMMING AND CUSTOMIZING THE BASIC STAMP
COMPUTER.
<http://www.robotgames.com/resources/resource-books.htm>
3. Rentron.com
Troubleshoot your PC with the BASIC STAMP
http://www.rentron.com/BIOS_Stamp.htm
4. Stampsinclass.com
Basic stamp manual.
http://www.stampsinclass.com/html_files/bs_books/books_brief.asp
5. Ucpros.com
Parallax Basic Stamp Books (PIC Architecture).
http://www.ucpros.com/Resources/books_paralax_basic_stamp.htm
6. Amazon.com
Stamp works.
Microcontroller Projects Using the Basic Stamp.
www.amazon.com
7. Claus Kuhnel and Klaus Zahneert's Basic Stamp Book.
"Les BASIC Stamp" (In FRENCH) by Christian Tavernier
Both books and English versions available in
www.selctronic.fr

Stamp Accessories:

Following companies are involved in manufacturing and selling the microcontroller and BASIC STAMP accessories.

JAMECO - Inexpensive, good selection of components and IC's. (Free catalog)

<http://www.jameco.com/>

DIGI KEY - Expensive, but has a lot wider selection than Jameco. (Free catalog)

<http://www.digikey.com/>

BG MICRO - Inexpensive, limited selection you can find some odd stuff here. (Free catalog)

<http://www.bgmirco.com/>

ELECTRONIC EXPRESS - Cheap, good selection. (Free catalog)
<http://www.elexp.com/>

ALL ELECTRONICS CORP good selection. (Free catalog)
<http://www.allcorp.com/>

HOSFELT ELECTRONICS - Reasonable pricing with a wider selection than most. (Free catalog)
<http://www.hosfelt.com/>

CIRCUIT SPECIALISTS - Inexpensive, Pretty much the same selection as Jameco. (Free catalog)
<http://www.cir.com/>

MOUSER ELECTRONICS - Expensive but with a big selection much like Digikey. (Free catalog)
<http://www.mouser.com/>

ALLIED ELECTRONICS - Good selection (online catalog)
<http://www.allied.avnet.com/>

ALLTRONICS - Wide selection of products (online catalog)
<http://www.alltronics.com/>

Also some of the major IC manufacturer companies are:

NATIONAL SEMICONDUCTOR - One of the biggest chip manufacturers.
<http://www.national.com/>

FAIRCHILD SEMICONDUCTOR - Gates, flip-flips, ADC's. They got it all.
<http://www.fairchildsemi.com/>

DALLAS SEMICONDUCTOR - great company have Temp monitor chips, Real time clocks, etc.
<http://www.dalsemi.com/>

MAXIM INTEGRATED PRODUCTS - ADC's, Op-amps, etc. They offer 8 IC samples for free!

<http://www.maxim-ic.com/>

MOTOROLA SEMICONDUCTOR PRODUCTS - Pressure sensors and many other things.

<http://e-www.motorola.com/>

HARRIS SEMICONDUCTOR - Wide range of IC's and components

<http://www.semi.harris.com/>

TYCO ELECTRONICS

<http://catalog.tycoelectronics.com/TE/bin/TE.Menu?M=Main>

NEWARK ELECTRONICS

<http://www.newark.com/>

JDR MICRODRIVES

<http://www.jdr.com/interact/default.asp>

MICROCHIP EMBEDDED CONTROLS

<http://www.microchip.com/index.asp>

MICROENGINEERING LABS

www.melabs.com/

TEXAS INSTRUMENTS

www.ti.com/

SGS- THOMSON

<http://us.st.com/stonline/index.shtml>

HAMAMATSU CORPORATION

<http://usa.hamamatsu.com/>

LSI COMPUTER SYSTEMS

<http://www.lscsi.com/Welcome.htm>

LINX TECHNOLOGIES

<http://www.linxtechnologies.com/docs/main.html>

W.W.Grainger Inc. It maintenance, repair, and operating supplies (motors, casters, lamps.)

<http://www.grainger.com/Grainger/wwg/start.shtml>

Hobby shops:

Leff Electronics (412) 351-5000, 223 Braddock Ave., Pittsburgh
Electronics Supplies & Tools.

River Junction Hobbies (412) 728-5571, Radio controlled (R/C) car parts

J & C Hobbies (412) 795-9344, 100 A Street, Penn Hills
R/C airplane & boat parts, An enormous selection of wheels and servos.

A.B. Charles & Sons (412) 561-3068, 3213 West Liberty Ave., Dormant
R/C cars, trains, motors, gears.

Hooter Chassis & Hobby Shop, Route 322 in Hannaville, Rd #1, Box 99
Utica PA 16362, Ph: (814) 425-3122 or (814) 425-1595

Radio Shack, (412) 521-6356, 1926 Murray Ave, Squirrel Hill, Pittsburgh

Micro Mo Electronics Inc. 14881 Evergreen Avenue, Clearwater, FL
34622-3008, (813) 572-0131, Fax: (813) 573-5918. Motor vendor with large
selection, plus on-line datasheets, selection information.

<http://www.micromo.com/>

Tower Hobbies- R/C Cars, R/C airplanes, Helis, motors, accessories.

<http://www.towerhobbies.com/>

Wirz Electronics- P.O. Box 457, Littleton, MA 01460-045, 1-888-289-9479
Polaroid Sonar boards, Motor drivers, Robot kits.

<http://www.wirz.com/>

HVWTech, HVW Technologies, Suite 473, 300-8120 Beddington Blvd., N.W., Calgary, Alberta T3K 2A8, CANADA, Tel: (403) 730-8603, Fax: (403) 730-8903

Source for Microcontrollers, Robotics and Accessories, motor driver kits.

<http://www.hvwtech.com/pages/default.asp>

Searchable Engineering Catalogues: Provides very good information about vendors and companies dealing with Basic stamp, accessories etc.

<http://www.designinfo.com/>

AP Circuits - printed circuit board manufacturer.

<http://www.apcircuits.com/>

ECD PCB Express - printed circuit board manufacturer.

<http://www.pcbexpress.com/>

MiniHW_3_Pericak

David Pericak

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mechatronics

Books :

The Microcontroller Application Cookbook

By : [Matt Gilliland](#), [Ken Gracey](#)

Programming and Customizing the Basic Stamp

By : [Scott Edwards](#)

Basic Stamp

by [Claus Kuhnel](#), [Klaus Zahnert](#)

Stamp II Communications and Control Projects

by [Tom Petruzzellis](#), [Thomas Petruzzellis](#)

Online references:

<http://www.phanderson.com/stamp/tutorial.html>

<http://www.doc.ic.ac.uk/~ih/doc/pic/>

<http://www.geexa.v-2-1.net/index-page2.html>

<http://www.iguanalabs.com/mbktut/>

Stamp accessories:

Mouser Electronics - <http://www.mouser.com/>

Alltronics - <http://www.alltronics.com/>

Digikey - <http://www.digikey.com/>

Hosfelt Electronics Inc. - <http://www.hosfelt.com/>

Hobby shops selling stamps:

AWC Electronics - <http://www.al-williams.com/index.htm>

Scott Edwards Electronics - <http://www.seetron.com/>

Stamps in Class - <http://www.stampsinclass.com/>

Mini Assignment 3 - Stamp Related Sources

Books	Online Compendia Of Stamp Applications	Stamp Accessories	Hobby Shops selling Stamps
1 .The Nuts and Volts of BASIC Stamps	www.al-williams.com	www.Parallax.ic	www.hobbytron.com
2. Matt Gilliland's 'Microcontroller Application Cookbook'	www.dontronics.com	www.electronicKits.com	www.rfdigital.com
3. Programming and Customizing the Basic Stamp Computer –Scott Edwards	www.basicstamp.com	http://www.jameco.com	www.embedded.com
4. Easy PIC'n	www.stampsinclass.com	http://www.digi-key.com/ http://ourworld.compuserve.com	www.csmicrosystems.com
5. BASIC Stamp, Second Edition - Claus Kühnel and Klaus Zahnert			www.netmedia.com
6. StampWorks – Jon Williams		www.ringsurf.com	www.hvwtech.com
7. Microcontroller Projects Using the BASIC Stamp - Al Williams		www.wgmarshall.freeseve.co.uk	www.pond.ie
8. Programming and Customizing the BASIC Stamp Computer -Scott Edwards			
9. Stamp II Communications and Control Projects -- by Tom Petruzzellis, Thomas Petruzzellis;			

Mini-assignment 3

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Stamp Related Resources

Books:

1. The Nuts and Volts of BASIC Stamps, Volume 3.
2. Programming and Customizing the BASIC Stamp Computer
3. BASIC Stamp, Second Edition
4. Microcontroller Projects Using the BASIC Stamp
5. Microcontroller Application Cookbook
6. Microcontroller Application Cookbook 2
7. StampWorks Manual Version 1.1
8. BASIC Stamp Manual Version 2.0
9. What's a Microcontroller?
10. Advanced Robotics

Online Compendia of STAMP applications:

1. <http://www.nutsvolts.com/stmpindx.htm>
2. <http://www.hth.com/losa.htm>
3. <http://www.phanderson.com/stamp/tutorial.html>
4. <http://www.tradetech.co.nz/basic%20stamp/applications.htm>

5. <http://www.geocities.com/SiliconValley/Orchard/6633/links.html>
6. <http://www.solutions-cubed.com/basicstamp.htm>
7. <http://www.al-williams.com/wd5gnr/bstoc.htm>
8. <http://www.emesystems.com/BS2links.htm>
9. <http://www.geocities.com/SiliconValley/Orchard/6633/>
10. <http://bmbiris.bmb.uga.edu/wampler/compcont/sld036.htm>

Hobby shops:

1. Arwa-tech : http://www.apexvalue.com/basic_stamp_robotics.htm
2. ApexValue : <http://www.arwa-tech.com/electronics.htm>
3. reconnsworld : <http://www.reconnsworld.com/>
4. HVW Technologies: <http://www.hvwtech.com/>
5. American science and surplus: <http://www.sciplus.com/>

Stamp Accessories:

1. Parallax Websites
2. Nuts and Volts Magazine
3. Retrofire: Rockets and Robots newsletter
4. Arwa-tech website
5. CV Tech Website

Assignment 3

Stamp Related Sources

Uma Shankar Sharma

Usharma2@buffalo.edu

Books

- **Programming The SX Microcontroller** by *Guenther Daubach Parallax Product*
- **Microcontroller Projects With Basic Stamps** by *Al Williams*
- **Programming and Customizing the Basic Stamp** by *Scott Edwards*
- **The Microcontroller Application Cookbook** by *Matt Gilliland, Ken Gracey*
- **The Nuts & Volts of Basic Stamps** by *Scott Edwards*
- **Basic Stamp** by *Claus Kuhnel, Klaus Zahnert*
- **Programming PIC Microcontrollers with PICBASIC** by *Chuck Hellebuyck*
- **StampWorks** by *Jon Williams, Parallax Inc*
- **Programming & Customizing PICmicro Microcontrollers** by *Michael Predko, Myke Predko*
- **PIC Robotics: A Beginner's Guide to Robotics Projects Using the PIC Micro** by *John Iovine*
- **PICmicro Microcontroller Pocket Reference** by *Michael Predko, Myke Predko*

Online Compendia

- LOSA - Text files describing Stamp applications (List Of Stamp Application)
- OOPIC - How to use the OOPIC microcontroller. OOPic is an acronym for Object-Oriented Programmable Integrated Circuit
- Basic Stamp 2 - Tutorial and Applications <http://www.phanderson.com/stamp/tutorial.html>
- BASIC Stamp FAQ http://dmoz.org/Science/Technology/Electronics/Reference/BASIC_Stamp/
- POND Electronics <http://www.pond.ie/TechInfo/Stamp/>
- PIC theory and Practical tips - Notes, opinions, ideas, links about using PICs (peripheral interface controllers) in electronics education to GCSE level
- StamPIC BASIC stamp projects and links to various sites with PIC information
- AWC Electronics - Resources for basic stamp programming and accessories, tutorials, projects, with a basic stamp FAQ
- High-TechGarage.com
Basic STAMP tutorials and projects such as Real-time clocks and I2C EEPROM
- Instructions for Microcontroller Beginner Kit - Tutorial for those who know nothing about electronics and want to learn from the beginning <http://www.iguanalabs.com/mbktut/>
- Bob Blick
Bob provides a number of application notes and schematics, including his famous H-bridge circuit
- Nuts and Volts magazine
This is the magazine that carries the most information about the BASIC Stamp, including the Stamps applications articles by Scott Edwards, Jon Williams and Lon Glazer in their archives
[MiniHW_3_Sharma](#)

Hobby shops selling stamps

- Alltronics www.alltronics.com
- PCB 123, Inc. www.pcbexpress.com
- R4 Systems, Inc <http://www.labcenter-electronics.com/>
- HVW Technologies, Inc www.hvwtech.com
- Information Unlimited www.amazing1.com
- Scott Edwards Electronics Inc. www.seetron.com
- Velleman, Inc. www.vellemanusa.com
- Z-World www.zworld.com
- Zagros Robotics www.zagrosrobotics.com
- Blue Bell Design, Inc. www.bluebelldesign.com
- Budget Robotics www.budgetrobotics.com
- Lynxmotion, Inc. www.lynxmotion.com
- New Micros, Inc www.newmicros.com
- Weatherstamp <http://www.weatherstamp.com/>
- Solutions Cubed <http://www.solutions-cubed.com/>
- BasicMicro <http://www.basicmicro.com/>

Stamp Accessories

- Parallax - Makers of the Basic Stamp. Great Website
- Stamps in Class - Good for beginners
- Scott Edwards Electronics - Produce LCD's, Servo controllers, LCD Accessories, etc.
- Solutions Cubed - Produce add-ons for the Stamp. Pocket watch, motor driver, ram pack, etc.
- AWC - Produce add-ons for the Stamp that increase Ram, addition I/O's, Math capabilities such floating point math and more
- HVW Technologigies - Serial LCD's, Motor Drivers, DIRRS, etc.
- Tower Hobbies - R/C stuff & servo motors.
- Micro Engineering Labs, makers of the PICProto boards and the PicBasic compiler
- APEXVALUE- Basic Stamp Accessories
- SerialGrafix SerialGrafix sells large serial controlled graphic/text LCD's and PIC related items.

Groups and Clubs

- Vancouver Island Robotics Group
- The San Diego Robotics Society
- Miami Valley Robotics Club - Troy, Ohio
- Central Illinois Robotics Club (CIRC)
- The Robot Club on Yahoo
- Robot Group in Austin
- Seattle Robotics Society
- San Francisco Robotics Society of America
- Dallas Personal Robotics Group - Dallas, TX
- Portland Area Robotics Society - Portland, OR
- Northern New Mexico Robotics Group - Los Alamos, NM
- Twin Cities Robotics Group - St. Paul, MN
- Robotics Society of America

Publications

- On-Line Magazine Links
- Robot Magazine
- Microcontroller Journal
- Electronics Virtual Trade Show
- Nuts-N-Volts Magazine
- Micro Robots Book
- www.robotmag.com

Robot Competitions & Contests

- [BattleBots](#)
- [Robot Rumbles](#)
- [Odyssey of the Mind "OMerdroid" Project](#)
- [The official WWW site of the BEAM Robot Games](#)
- [RobotWars Web Page](#)
- [Robot Competition FAQ by NCC](#)
- [Micromouse contest](#)
- [US First Contest for Youth](#)
- [Robotix Annual Conference, Exhibition, Contest](#)

Books

Serial No.	Book	Author, Publisher, etc.	Description and Details.
1	Basic Stamp Manual v 2.0	Published by Parallax Inc.	The complete reference manual to the Basic Stamp family of micro-controllers. Contains the complete PBASIC command-set and also guidelines for using the hardware and software provided in the kit. Also available as a free download.
2	Stampworks manual 1.1	Published by Parallax Inc.	This manual contains [1] as an appendix. In addition, it features 31 articles about BASIC stamp programming by Nuts & Volts columnist Jon Williams.
3	Microcontroller Projects with Basic Stamps	Al Williams Published by CMP Books. ISBN 1578201012	Contains material that is useful for the novice as well as the experienced user. A multitude of projects to help demonstrate the material.
4	Programming and Customizing the Basic Stamp Computer	Scott Edwards Published by McGraw-Hill/TAB Electronics. ISBN 0079136842.	A comprehensive tutorial on the stamp from the author of the popular Nuts & Volts column on the Basic Stamp. http://www.parallax.com/html_pages/resources/nvcolumns/Nuts_Volts_Downloads.asp .
5	Basic Stamp	Claus Kuhnel, Klaus Zahnert. Published by Newnes. ISBN 0750672455	Covers both hardware and software. Contains some applications suitable for hobbyists and professional designers.
6	Stamp II Communications and Control Projects.	Thomas Petruzellis. Published by McGraw Hill. ISBN 0071411976	Contains 24 communications specific projects. Covers details required by both the amateur and the professional designer.

List of Stamp Applications

Serial No.	Site	Description	Details
1	http://www.nutsvolts.com/stmpindx.htm	The stamp articles published in the Nuts & Volts online magazine from 1995 to 1997.	Contains 31 articles of varying complexity in the PDF format, for both the BS1 and the BS2. The articles contain source code, circuit diagrams and other low-level details.
2	http://www.hth.com/filelibrary/txtfiles/losa.txt	This page, called the LOSA (List Of Stamp Applications), contains articles by various	Over 200 articles by various contributors, collected on a single text page. Contains high-level details of various applications

		contributors.	people have found for the Stamp.
3	http://www.geocities.com/SiliconValley/Orchard/6633/projects.html	Shaun Wilson's Basic Stamp projects page.	Contains a list of projects done by Shaun Wilson. Datasheets, code and hardware schematics are available for download.
4	http://www.emesy.com/BS2index.htm	Basic stamp applications from EME systems/Tracy Allen.	Some articles about Basic Stamps in Eco-sensing and earth-monitoring. These PDF files containing schematics and code are available for download.
5	http://www.rentro.com/BasicStamp.htm	Basic Stamp Applications contributed by various people.	Contributed articles about Basic Stamp applications. Schematics and code provided in the articles.

Parallax Websites

Serial No.	Site	Description	Details
1	www.parallax.com	The Parallax Inc. website.	The website of the makers of the Basic Stamp.
2	www.stampsinclass.com	Parallax's website intended for students.	Resources provided for students by Parallax Inc.

Hobby shops selling STAMPs.

Serial No.	Site	Description & Details
1	www.hvwtech.com	The website of HVW technologies. HVW technologies sells all sorts of hobby electronics stuff, including Basic Stamps and other hardware components required for Stamp projects.
2	http://www.jameco.com	Jameco Electronics. Sellers of hardware components for a wide variety of applications.
3	http://www.phanderson.com/	P H Anderson, a stamp enthusiast, resells Basic Stamps.
4	http://www.radioshack.com/category.asp?catalog%5Fname=CTLG&category%5Fname=CTLG%5F010%5F017%5F001%5F000&Page=1	Radio Shack's page for Basic Stamp.
5	http://shop3.outpost.com	Fry's Electronics.

Other Resources

Serial No.	Site	Description & Details
1	http://directory.google.com	Google's Basic Stamp category

MiniHW_3_Sidhardhan

	ogle.com/Top/Science/Technology/Electronics/Reference/BASIC_Stamp/	
2	http://groups.yahoo.com/group/basicstamps2/	Yahoo! Group for Basic Stamp enthusiasts.

Basic Stampa) **List of Basic Stamp Books:**

1. Parallax Basic Stamp Books
2. Stampworks
3. Basic Stamp by Claus Kuhnel and Klaus Zahnert
4. Microcontroller projects using basic stamp 2nd Edition by Al Williams
5. Practical Electronics for inventors by Paul Scherz
6. Programming & Customizing PIC micro Microcontrollers by Micheal Predko
7. The Forrest MIMS Circuit Scrapbook by Forrest M MIMS
8. Programming and Customizing the Basic Stamp by Scott Edwards
9. Nuts and Volts of Basic Stamp , Volumes 1-3
10. Robot builder's Bonanza by Gordon McComb

b) **Online Compendia about Basic Stamp:**

1. http://www.parallax.com/html_pages/resources/custapps/customer_applications.asp
2. <http://www.bobblick.com/techref/projects/projects.html>
3. <http://www.hth.com/losa/>
4. <http://www.al-williams.com/som.htm>
5. <http://www.rentron.com/BasicStamp.htm>
6. <http://www.high-techgarage.com/>
7. <http://www.robotics.com/robot/co.html>
8. <http://www.nutsvolts.com/stmpindx.htm>
9. <http://www.pololu.com/projects/>
10. <http://www.tradetech.co.nz/basic%20stamp/applications.htm>

c) **Basic Stamp Accessories:**

1. http://www.parallaxinc.com/html_files/products/products_listing.htm
2. http://www.apexvalue.com/basic_stamp_access.htm
3. <http://www.cvtech.com.au/stampsinclass/price.htm>
4. <http://www.mouser.com/catalog/612/73.pdf>
5. <http://www.seetron.com/>
6. http://www.solutions-cubed.com/products_main.htm
7. <http://www.hvwtech.com/pages/default.asp>
8. <http://www.allelectronics.com/cgi-bin/category.cgi?category=440&type=store>
9. <http://www.robotstore.com/catalog/list.asp?cid=13>
10. <http://www.tradetech.co.nz/basic%20stamp/products/products9.htm>

d) **Hobby Shops selling Basic Stamps & related products:**

1. <http://www.phanderson.com>
2. <http://www.gazbot.com/OrderProducts.asp>
3. <http://www.outpost.com/product/3144710>
4. http://www.rentron.com/PicBasic/Mini_SSC_II.htm
5. <http://www.ipelectronics.com/electronicsbasickit/>
6. <http://www.solarbotics.net/library/links/vendors.html> (provides a list of local hobby stores)

e) **Personal Websites (non commercial) dedicated to Basic Stamp:**

1. <http://www.geocities.com/SiliconValley/Orchard/6633/>
2. <http://remo.net/rac/resources.htm>
3. http://www-2.cs.cmu.edu/~chuck/robotpg/robo_rsrc.html
4. <http://web.umr.edu/~bsiever/interests/>
5. http://dec1.wi-inf.uni-essen.de/~astephan/links/pages/links_faq.htm

MECHATRONICS

MAE 576

Assignment 3

Basic Stamp Resources

Srinivas SUNDARAGOPAL

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BOOKS ON BASIC STAMPS

Programming and Customizing the Basic Stamp

Scott Edwards

Programming and Customizing the Basic Stamp Computer

Scott Edwards

Microcontroller Projects Using the Basic Stamp 2nd Edition

Al Williams

StampWorks

Jon Williams, Parallax Inc.

The Microcontroller Application Cookbook

Matt Gilliland, Ken Gracey

Basic Stamp

Claus Kuhnel, Klaus Zahnert

Basic Stamp: An Introduction to Microcontrollers

Claus Kuhnel, Klaus Zahnert

The Microcontroller Application Cookbook: Volume 1 with Hardware & Code Samples Featuring the Basic Stamp 2

Gilliland, Matt

The Microcontroller Application Cookbook, Vol 2. with BASIC Stamp 2 Homework Board

Matt Gilliland

Stamp II Communications and Control Projects

Tom Petruzzellis, Thomas Petruzzellis

The Basic Stamp 2 - Tutorial and Applications

Peter H. Anderson

Robot Builder's Bonanza

Gordon McComb

PIC Microcontroller Project Book

John Iovine

ONLINE COMPENDIA / FORUMS ON BASIC STAMPS

<http://www.hth.com/filelibrary/BS2-IC/>

A huge file library with source code with detailed comment

<ftp://ftp.parallaxinc.com/>

A collection of pdf files with a lot of experimentation details and help files for Basic Stamp programming

<http://www.emesystems.com/BS2SX.htm>

BS2 programming guide with tips

http://dmoz.org/Science/Technology/Electronics/Reference/BASIC_Stamp/

Compendium links

<http://www.machinebrain.com/>

Robotics links with online library reference

<http://www.nutsvolts.com/ftpindex.htm>

Library files of Stamp applications

<http://www.al-williams.com/resource.htm>

Resources for basic stamp programming and accessories, tutorials, projects, with a basic stamp FAQ.

<http://www.phanderson.com/stamp/tutorial.html>

BS applications resource

TUTORIALS ON BASIC STAMPS

ftp://ftp.parallaxinc.com/BS2_Tutorial_jj.ppt

A descriptive presentation with detailed diagrams and circuitry

<http://www.stampsinclass.com/>

Online books, tutorials

<http://microengineeringlabs.com/resources/articles/>

Good tutorial for beginners

<http://www.iguanalabs.com/maintut.htm>

Microcontroller tutorials – beginner, intermediate, advanced

<http://www.phanderson.com/stamp/tutorial.html>

An application based tutorial – A very good guide

http://www.silab.it/frox/stamp/bs2_math.htm

Math tutorial on Basic Stamp 2

MiniHW_3_Sundaragopal

<http://www.emesys.com/BS2index.htm>

A very good collection of Math operators, tricks and tutorials

<http://www.howstuffworks.com/microcontroller.htm>

Descriptive tutorial about working of microprocessors

<http://tutor.al-williams.com/>

Microchip hardware and programming tutorial

<http://www.8052.com/tutorial.phtml>

Microprocessor tutorial

<http://www.phanderson.com/stamp/intro/intro.html>

Introductory tutorial on Stamps and Stamp Programming

PROJECTS ON BASIC STAMPS

<http://www.geocities.com/SiliconValley/Orchard/6633/projects.html>

Basic Stamp projects

<http://microengineeringlabs.com/resources/articles/>

Simple projects

<http://www.geocities.com/stampic/bs1stampic.zip>

<http://www.geocities.com/stampic/bs2stampic.zip>

Source code and projects for BS1 and BS2

http://www.geocities.com/stampic/HATEM_PROJECTS.HTM

Student projects on Basic Stamp

<http://www.rentron.com/BasicStamp.htm>

Commercial projects with explanations

DEALERS IN BASIC STAMPS / BASIC STAMPS ACCESSORIES

<http://warburtontechnology.saffas.com/>

http://www.apexvalue.com/basic_stamp_access.htm

http://www.parallaxinc.com/html_files/downloads/downloads_accessories.htm

<http://www.mouser.com/catalog/612/73.pdf>

<http://www.seetron.com/>

<http://www.hosfelt.com/>

LINKS TO BASIC STAMP

<http://www.emesystems.com/BS2links.htm>
<http://www.solutions-cubed.com/basicstamp.htm>
<http://www.geocities.com/stampic/links.htm>
<http://www.wd5gnr.com/stamplink.htm>
http://dmoz.org/Science/Technology/Electronics/Reference/BASIC_Stamp/
http://www.stampsinclass.com/html_files/links.htm
<http://warburtontechnology.saffas.com/Links/Links.htm>
<http://www.seetron.com/links.htm>
http://www.parallax.com/html_pages/resources/links/links.asp
<http://www.phanderson.com/stamp/>
<http://www.tradetech.co.nz/basic%20stamp/links.htm>

HOBBY HOME PROJECTS / HOBBY LINKS ON BASIC STAMP

<http://www.towerhobbies.com/>
http://www.solutions-cubed.com/products_main.htm
<http://www.al-williams.com/index.htm>
<http://www.mastincrosbie.com/mark/electronics/stamp/stamp.html>
<http://www.bluebelldesign.com/HobbyHelp.htm>

Stamp Related Resources

Books:

Stamp II Communications and Control Projects by Tom Petruzzellis

Basic Stamp by Claus Kuhnel and Klaus Zahnert

StampWorks by Jon Williams, Parallax Inc.

Microcontroller projects Using the Basic Stamp 2nd Edition by Al Williams

The Microcontroller Application Cookbook by Matt Gilliland

Basic Stamp 2- Tutorial and Applications by Peter H. Anderson

Robot Builder's Bonanza by Gordon McComb

Stamp Accessories:

http://www.apexvalue.com/basic_stamp_access.htm

<http://www.arwa-tech.com/electronics.htm>

http://www.stampsinclass.com/html_files/bs_boards/boards.asp

<http://www.digikey.com/scripts/us/dksus.dll?Criteria?Ref=56879&Cat=31916547>

http://www.solutions-cubed.com/products_main.htm

Stamp Applications:

<http://www.phanderson.com/stamp/>

<http://www.wd5gnr.com/stampfaq.htm>

<http://www.rentron.com/BasicStamp.htm>

<http://www.audiomulch.com/midipic/>

Reference Information:

<http://www.chipcenter.com/circuitcellar/august01/c0801rr1.htm>

<http://www.phanderson.com/stamp/tutorial.html>

<http://www.geocities.com/SiliconValley/Orchard/6633/links.html>

Where to Buy Stamps:

<http://www.jameco.com/>

<http://www.digikey.com/>

<http://www.elexp.com/>

Assignment 3: Submitted By: Rohit R Thali.

Books for the Basic Stamp:

Basic Stamp Data Book. Newnes Publishing; 1997. (Available from Jameco): This book covers both the hardware and the software sides of the Parallax BASIC Stamp I and II microprocessor operation and design. It walks you through applications suitable for designers as well as the home hobbyist.

Programming and Customizing the Basic Stamp. McGraw Hill; 1998. (Available from Jameco): A comprehensive tutorial on the easy to use BASIC stamp single board computer and a primer on electronics.

Basic Stamp, by Claus Kuhnel, Klaus Zahnert: Covers both the hardware and software sides of the Parallax BASIC Stamp 1 and 2 microprocessor operation and design. The BASIC Stamp is built on PIC microcontroller hardware and uses PBASIC as its programming language, which makes it simple to use, but versatile enough to solve professional problems.

Microcontroller Application Cookbook, by Matt Gilliland, Ken Gracey: The Microcontroller Application Cookbook is the beginner's sourcebook for real-world machine control. It features over 100 schematics and code samples based on the popular BASIC Stamp2 Microcontroller.

Microcontroller Projects Using the Basic Stamp, by Al Williams: Updated with a complete, task-oriented command reference for the BS2P Stamp and detailed instructions for new projects including Internet-to-Stamp gateways, test instruments, infrared remote controls, and robot motor controls. Includes a Basic Stamp emulator, a tool to program PIC chips, and practical advice for PC interfacing using serial EEPROMs, analog I/O capabilities.

Microcontroller Projects with Basic Stamps, by Al Williams: Are you an old-hand at microcontroller design? Seasoned designers accustomed to using more arcane microcontrollers will find that Basic Stamps are easy, productive and fun to use. You will find practical advice for PC interfacing, using EEPROMS and other devices, as well as a task-oriented command reference, and chapters that cover analog I/O, serial communications, and LCDs and keypads.

Hobby Shops in New York (around Buffalo):

ACE HOBBY SHOP, 1801 PIERCE AVE, NIAGARA FALLS NY, 716 282 9753
ADVENTURES & HOBBIES 545 TITUS AVE ROCHESTER NY (716) 342-1070
Aldon Hobby, 100 Castle St., Geneva NY 14456, 315 789-8343
CRAZY EGOR 4 SOUTH AVE. HILTON NY (585) 392-0230
Dan's Crafts and Things,352 Empire Blvd., Rochester NY 585-482-7850
DESPATCH JUNCTION 100 STATION RD. EAST ROCHESTER NY (716) 385-5570
FIELDS HOBBY CENTER, 3523 UNION RD, BUFFALO NY, 716-681-6440
HOBBY HORSE 56 MAIN ST LEROY NY (585) 768-8130
HOBBY HOUSE, 2366 LYELL AVE, ROCHESTER NY, 716 429 6280
HOBBYTOWN USA, SHERIDAN CENTER, 3332 SHERIDAN DR, BUFFALO NY, 716 833 7700
HOBBY WORLD, 1401 NASH RD, NORTH TONAWANDA NY, 716-693-3366
LEIF'S SALES & SERVICE, LTD. 9328 COUNTY RD. #14 HONEOYE FALLS NY (585) 624-4295
Performance Hobbies, 15 Main Street, Webster NY, (716) 872-4990
R/C CONCEPTS Cardboard Planes for R/C
Reid's Quality Model Products 30 Clifton Street, Phelps, New York, 14532 Phone: (315)548-3779
RIDGE ROAD STATION 16131 RIDGE ROAD WEST HOLLEY NY (585) 638-6000
RLR RAILROAD 15 JACKSON ST. BATAVIA NY (716) 344-1729
RMC Hobbies, 2484 Rochester Rd (Rt. 332) Bldg. #1 Canandaigua NY, 716-394-1210
ROCK RIVER MODEL HOBBIES, 7762 ROCK RIVER RD, INTERLAKEN NY, 607 532 9489
UNIVERSAL ENTERTAINMENT, 1611 PINE AVE, NIAGARA FALLS NY, 716 282 4840
WALT'S HOBBY, 2 DWIGHT PARK DR, SYRACUSE NY, 315 453 2291

Included below are also online shops/sources for stamps and related accessories.

WebPages for Online Tutorials on the Basic Stamp:

- <http://www.al-williams.com/awc/wd5gnr/stampfaq.htm> -- Basic Stamp FAQ.
- <http://fargo.itp.tsoa.nyu.edu/~tigoep/pcomp/examples.html> -- Example Basic Stamp II programs including MIDI Input and Output. Basic Stamp FAQ.
- <http://www.tjhsst.edu/~jleaf/tec/stamp/sttutor1.htm>
- <http://www.me.umn.edu/resources/desres/stamp/>
- <http://www.stampsinclass.com/>
- http://www.phanderson.com/stamp/tutorial_10.html

Stamp Accessories:

- <http://www.pololu.com/>
- <http://www.tecel.com/>
- <http://www.hvwtech.com/pages/default.asp>
- <http://www.wirz.com/>
- <http://www.acroname.com/>
- <http://www.futurebots.com/>
- <http://www.robotstore.com/>
- <http://www.rdrop.com/users/marvin/>
- <http://www.lynxmotion.com/>
- <http://www.bluebelldesign.com/>

The above mentioned websites are sources for required accessories.

Online compendia / examples of Stamp Applications:

- <http://www.geocities.com/SiliconValley/Orchard/6633/projects.html>
- <http://www.brouhaha.com/~eric/pic/>
- <http://www.frii.com/~dlc/robotics/projects/botproj.htm>
- <http://www.al-williams.com/som.htm>
- <http://www.qsl.net/wd4bis/bstamp.htm>
- <http://www.tradetech.co.nz/basic%20stamp/applications.htm>

Mini Assignment 3

Gaurav Tyagi

Stamp Related Resources:

1: Books:-

- **Programming and Customizing the Basic Stamp** -- by Scott Edwards
- **Stamp II Communications and Control Projects** -- by Tom Petruzzellis, Thomas Petruzzellis
- **The Microcontroller Application Cookbook** by Matt Gilliland, Ken Gracey
- **The Microcontroller Application Cookbook, Vol 2. with BASIC Stamp 2 Homework Board** by Matt Gilliland
- **Microcontroller Projects Using the Basic Stamp 2nd Edition** by Al Williams
- **Basic Stamp** by Claus Kuhnel, Klaus Zahnert
- **Stamp Works** by Jon Williams, Parallax Inc.
- **The Basic Stamp 2 - Tutorial and Applications** by Peter H. Anderson
- **A Great Introduction to Basic Stamp** By Chuck Curry
- **Inside Basic Stamp- II** – By Brian Forbes

2: Online Resources for Stamp Application:

- Basic Stamp Projects - <http://www.geocities.com/SiliconValley/Orchard/6633/projects.html>
- Stamp Projects and Products - <http://www.rentron.com/BasicStamp.htm>
- Otis's Basic Stamp Robot Page - <http://home.epix.net/~iracerc/stamp.html>
- List of Stamp Applications – LOSA - <http://www.hth.com/filelibrary/txtfiles/losa.txt>
- Tracy Allen's Basic Stamp page - <http://www.emesystems.com/BS2index.htm>

3: Stamp Accessories:

- Reynolds Electronics - <http://www.rentron.com/>
- Shaun's Basic Stamp Homepage <http://www.geocities.com/SiliconValley/Orchard/6633/>
- Solutions Cubed(add on for Stamp) - <http://www.solutions-cubed.com/>
- AWC Electronics –(add on for Stamp) - <http://www.al-williams.com/index.htm>
- Parallax – <http://www.parallax.com/>

4: Hobby shops selling stamps:

- Reynolds Electronics - <http://www.rentron.com/>
- Scott Edward's Electronics - <http://www.seetron.com/>
- HVW Technologies - <http://www.hvwtech.com/pages/default.asp>
- Tower Hobbies - <http://www.towerhobbies.com/>

MiniHW_3_Tyagi

5: Online Tutorials and FAQ:

- Tutorial: <http://www.phanderson.com/stamp/tutorial.html>
- Basic Stamp Frequently Asked Questions - <http://www.wd5gnr.com/stampfaq.htm>
- Math for Basic Stamp - http://www.silab.it/frox/stamp/bs2_math.htm