Computer Engineering Co-op

Electrical Engineering Co-op

Industrial Engineering Co-op

Mechanical Engineering Co-op

Mechanical Engineering Graduating Student

Microelectronic Engineering Co-op

John Doe

jxd1234@.rit.edu

10 Smith Street
City, State, Zip
555- 123-4567 (cell)

1 John Street
Rochester, NY 14623

OBJECTIVE

To apply my knowledge of Electrical Engineering principles through co-op employment. Available for a 3-6 month period beginning late November 2012.

EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY, Rochester, NY
Bachelor of Science in Electrical Engineering, expected May 2015
GPA: 2.89/4.00

Courses:

Circuit Analysis I with Lab
Circuit Analysis II
Technical Programming I with Lab
Electromagnetic Fields I
Electromagnetic Fields II with Lab
Digital Systems
Engineering Math
Intro Prog / C & Matlab
Intro to Semiconductor Devices
Electronics I
Linear Systems I & II

SKILLS

Software: C Programming, C++ Programming, MATLAB, Quartus, Altera, Microsoft Excel and Assembly Language
Hardware: Oscilloscope, Power Quality Analyzer, Digital Multimeter, Signal Generator, PSpice, Network Analyzer, TI MSP430 Microcontroller Platform and Circuit Board Etching

PROJECTS/LABS

Technical Programming I Lab
Object-oriented programming through C++ was used to develop software solutions for engineering and scientific applications.

Electromagnetic Fields II Lab
An HP8752 network analyzer was used to observe the effects of various loads on the voltage and current within transmission lines.

Microcomputer Systems Lab
A TI MSP430 16-bit microcontroller platform was programmed in assembly language to carry out specific functions.

Circuit Analysis I Lab
Resistor circuits and RC circuits were constructed and tested. Waveforms and voltages were measured and compared to the circuit.

Digital Systems Lab
Various digital logic circuits were analyzed schematically and then tested on hardware using an Altera hardware board.

MANUFACTURING EXPERIENCE

Smith Packaging Company, City, State **Summer 2012**
Assembler
Assembled plastic parts for medical and commercial applications.

PART-TIME EMPLOYMENT

Best Buy, Rochester, NY **September 2011- Present**
Sales Associate
Assist customers with electronic gaming purchases.

INTERESTS

Camping, tinkering with electronics, and antique auto restoration.

MARY SMITH

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OBJECTIVE

To apply my knowledge of Microelectronic principles through co-op employment. Available late November 2012 through Late May 2013.

EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY, Rochester, NY
Bachelor of Science, Microelectronic Engineering, expected May 2015
GPA: 3.04/4.00

COURSES

Digital Systems	Circuit Analysis I & II
Semiconductor Devices I	IC technology
Engineering Math	Design of Experiments
Intro to Microlithography	Thin Films Processes
Linear Systems I	Electronics I
SiGe and SOI Devices	CMOS Electrical Circuit Design

SKILLS

Software: Analog Workbench, C Programming, C++ Programming, Microsoft Office, Mathematica, JMP Athena, SUPREM
Hardware: Tektronix Oscilloscope, Microscopes, Graphics Design, Digital Multimeter, Function Generator, GCA Stepper, Soldering Iron, Ion Implanter, X-ray, Instron Mechanical Tester

EXPERIENCE

ROCHESTER INSTITUTE OF TECHNOLOGY, Rochester**,** NY
PC Technician, Wallace Library November 2010 - present
Assist computer users, manage computer labs, watch over print servers, create scripts and images for programs on computers, assist faculty and staff in need of assistance.

PROJECTS/LABS

Intro to Microlithography Lab
Learned the history of microlithography systems and processing steps which complement it. Learned how to use machines such as a GCA and spin stepper spin coater. Implemented use of high power microscopes to analyze wafers and gather measurements on overall distribution of thin film layers.

IC Tech Lab
Applied an introduction to physics, chemistry, and materials for integrated circuits fabricated on a silicon lattice structure—primarily involving NMOS and PMOS junction devices. Experience includes knowledge of crystalline growth, oxidation steps with thermal processing, photolithographic processes, chemical vapor deposition, metallization, wafer doping by diffusion, ion implantation and virtual simulation using the SUPREM system.

Thin Films Processes Lab
Lab focused on the deposition and etching of thin films of conductive and insulating materials for IC fabrication. A thorough overview of vacuum technology is presented to familiarize the challenges of creating and operating in a controlled environment. Chemical Vapor Deposition (CVD) and electroplating technologies are discussed as methods of film deposition. Plasma etching and Chemical Mechanical Planarization (CMP) are studied as methods for selective removal of materials.

ACTIVITIES

Microelectronic Engineering Student Association: Member, 2010- present
Woman Engineers at RIT: Member, 2010- present
Traveling, rock climbing, modern dance.

SUSAN SMITH

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Anytown, KS xxxxx
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xxx Park Point, Unit #
Rochester, NY 14xxx
(xxx) xxx-xxxx

OBJECTIVE

To obtain a co-op position in the Industrial Engineering field, and apply highly developed skills and knowledge. Available month, year to month, year.

EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY, Rochester, NY
Bachelor of Science in Industrial and Systems Engineering, expected May 20xx
GPA: 3.0/4.0
Courses:

Materials Processing with Lab	Computer Tools with Lab
Fundamentals of Industrial Engineering	Computing for Engineers with Lab
Materials Science with Lab	Mechanics I
Operations Research with Lab	Ergonomics with Lab
Engineering Management	Engineering Economy
Systems and Facilities Planning with Lab	Production Control

SKILLS

Software: Microsoft Office, Microsoft Access, AMPL, VISUAL Manufacturing
Hardware: Calipers, Micrometers, Lathe Machines, Horizontal and Vertical Milling Machines, Drill Presses

PROJECTS/LABS

Computer Tools Lab: Used AutoCAD, and Microsoft Access to design parts that would be manufactured, and to create reports and queries to organize information
Operations Research Lab: Used skills in linear programming and AMPL to solve large scale linear problems
Ergonomics Lab: Performed labs based on the physiological and biomechanical aspects of human performance to develop skills in designing work places based on human capability
Systems and Facilities Planning Lab: Built skills in material flow and material handling

EXPERIENCE

ENGINEERING CO-OP
ABC Company, Small Town, MA November 20xx - March 20xx
-Implemented a system that improved the tracking of work orders on the manufacturing floor so that throughput can be assigned to a task once it is complete
-Helped create and implement a new system to assign earned standard hours to work orders that are released
-Reconfigured lead times of parts and orders in the system

INDUSTRIAL ENGINEERING CO-OP
123 Industries, Pleasantville, KY March 20xx – August 20xx
-Developed, updated and maintained cost effective job setups and planned time analysis
-Gathered data for work measurement and assisted supervisors with planning and operations analysis
-Completed Weekly Operational Review Audits
-Created unload schedules for feeder trailer arrivals

ACTIVITIES

Society of Women Engineers September 20xx – present
Secretary – help organize meetings and events for group
Mentor – assisted female high school juniors who visited campus for overnight program

Big Brothers, Big Sisters, Volunteer

Hillside Children's Center, Volunteer

Wendy Turner

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Kellogg, IA 50135

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390 Manson Road
Rochester NY, 14623

Objective

To obtain an internship or co-op that incorporates a technical position in Mechanical Engineering. Available from June 2012 through August 2012.

Education

Rochester Institute of Technology, Rochester, NY
Bachelor of Science in Mechanical Engineering, expected May 2014
GPA: 3.05/4.0

Courses

Fluid Mechanics
Dynamics
Materials Science
Mechanics of Materials
Thermodynamics
Statics

Technical Skills

Computer: MS Office, ProEngineer, Labview, Matlab, Visual Basic, Image J, AutoCAD, SolidWorks, SAP
Machine or fabrication: Drill press, lathe, vertical mill
Foreign Languages: intermediate Spanish, intermediate Portuguese, beginning ASL, beginning German

Projects/Labs

Rube Goldberg Machine – Designed and constructed a simplistic, cheap Rube Goldberg Machine for Imagine RIT.
Northstar Summer Project – Engineered an antenna that would be able to detect Sudden Ionospheric Disturbances in the atmosphere.

Employment Experience

The Maytag Company **May 2011 – November 2011**
New Product Development Engineer

- Conducted temperature testing using type T & J thermocouples on power systems to determine T codes for UL and NEC standards.
- Collected data using DAQ National Instruments Hardware and Labview Software.
- Redesigned washer assemblies for optimization for expedited manufacturing insourcing for realized cost savings.
- Created drawing packages for manufacturing floor assemblies.

Rochester Institute of Technology – Rochester, New York **June 2010 – August 2010**
Researcher – Departments of Mechanical Engineering and Biology

- Tested stress and strains of cellular bonds in a flow chamber. Specifically worked with cancer cells.

Norwest Corporation – Kellogg, Iowa **July 2008 - December 2008**
Assistant to Secretary and Administration/Clerical Work

Leadership/Community Service/Volunteering

Rochester Institute of Technology

- Society of Hispanic Professional Engineers **December 2010 - Present**
  - President May 2010 – May 2011
  - Freshman Representative December 2010 – May 2010
- Diversity Leadership Advisory Board **November 2010 – May 2011**

GABRIELLE DOUGLAS

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1 ½ Park Point
Rochester, NY 14623

OBJECTIVE

To apply my knowledge of Computer Engineering principles through co-op employment. Available June 2012 through November 2012.

EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY, Rochester, NY
Bachelor of Science in Computer Engineering, expected May 2014
GPA: 4.00/4.00
Dean's List: Fall Quarters 2010, 2011

Courses:

Digital Systems	Circuit Analysis I with Lab
Assembly Language with Lab	Circuit Analysis II
Hardware Description Language with Lab	Computer Organization
Computer Science 2-4	Software Engineering

SKILLS

Languages: C++, Java, VHDL, HCS12 Assembly, MIPS Assembly
Operating Systems: Windows, Unix, Linux
Software: Eclipse, PSpice, Altera Quartus, ModelSim, Capture CIS
Hardware: Tektronix Oscilloscope, Digital Multimeter, Function Generator

PROJECTS/LABS

Digital Systems Lab
Various digital logic circuits were analyzed schematically and then tested on hardware using an Altera hardware board.

Circuits I Lab
A basic resistor circuit, inverting op-amp, and RC circuit were analyzed schematically and then were built on a prototype board. Waveforms and voltages were measured and compared to the circuit.

Software Engineering
Worked in a team with 5 others developing a Pizza Delivery System for a theoretical company using Java.

EXPERIENCE

Salsarita's @ RIT, Rochester**,** NY
Grill Cook/Food Server — Spring 2012
Cooked and served food for students, washed dishes.

Office of Co-op & Career Services, RIT Rochester,NY
Student Assistant — June 2009 – September 2010
Answered phones, scheduled appointments, special projects as assigned by management and other staff members.

ACTIVITIES

RIT Society of Women Engineers, President 2010
RIT Admissions Ambassador 2009 – Present
RIT Ultimate Frisbee Team 2009 – Present

INTERESTS

Gymnastics, gourmet cooking, traveling

Timothy Cooke

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Objective:
Seeking full time employment in the field of product development, available summer 2011

Education:
Rochester Institute of Technology **Rochester, NY**
Bachelor of Science in Mechanical Engineering with Energy & Environment Option, Expected May 2011
GPA 3.0

Relevant Courses:

Engineering Design Graphics	Design of Machine Elements
Robotics	Materials Processing with Fabrication Lab
Mechanics of Materials with Lab	Measurement Instrumentation and Controls Lab

Skills:
Software: Pro E, Solid Works, AutoCAD, Visual Basic, PBASIC, LabView, Matlab, Office (Excel, PP, etc.)
Leadership: Experienced leader in project based group work
Communication: Experienced in professional day to day oral and written interaction with diverse groups of people from around the world

Projects:
Multidisciplinary Senior Design: Required to design and fabricate a portable, low cost, 100W micro hydro turbine for third world countries and those without access to electricity. The team consists of four engineers; I serve as the lead engineer and am primarily responsible for fluid mechanics analysis and FEA of the system. The desired outcome is an economic and sustainable way to produce and store electricity in a 12V battery for those who do not have access to electricity.
Robotics: Team leader in design, construction, and programming of a small box stacking A.I. robot
Alternative Energy: Team based design of scholastic bio-diesel fuel generation process. The concept won a class based competition. Grade received: A
ProE Vice Project: The objective was to create a twenty seven part vice with 3D ProE software.
Each part of the vice was designed in ProE and then cataloged and researched for prices and availability. The final product resulted in a professional assembly drawing and bill of materials. Grade received: A

Work Experience:
Bose Corporation, Framingham, MA **March 2010 - November 2010**
Transducer Technology Corporate Research and Development Co-op
Served as part of a multidisciplinary team that conducted research on suspensions in audio transducers. Primarily responsible for the fabrication and characterization of the performance of these suspensions and reporting the results to the team. Work involved significant design and execution of experiments.

Advance Testing Company, Inc., Campbell Hall, NY **August 2009 - November 2009**
Engineering Field Technician
Completed on site asphalt density tests with nuclear density gauge.

Certifications: 10 Hour OSHA Safety Training Certification, Nuclear Density Inspector Certification

Volunteer Work:
Albany Equinox Charity Thanksgiving Dinner 2008
Helped prepare and distribute foods for city charity dinner

Activities and Interests:
Club soccer, working on ATVs/vehicles, club softball, rock climbing, skiing, golf, hiking, innovation, technology, traveling, reading, and lifelong learning