

Akemjot Singh Dhaliwal
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Objective

To apply my current education and skills as an electronic systems engineering student in a Co-op work term from September to December 2017

Skill Highlights

- Proficient in electronic design, schematic capture and unit testing
- Skilful in C/C++, Assembly(HCS 12), Matlab, Simulink, VHDL and MS office Applications
- Experience with Altium Designer, Eagle, Solidworks and Multisim
- Able to troubleshoot hardware, software, firmware and PCB layout
- Familiar about Unix/Linux Command line, scripting and Git
- Good team player, logical, flexible and thrive on new learning experiences
- Knowledge about HTML, JavaScript, and PHP

Education

Conestoga College: Electronic Systems Engineering, Co-op, B. Eng. (3rd year)

- **Engineering Projects**
 - Designing, developing and testing mobile camera platform, robot control PCB, audio amplifier and telecommunication network
- **Operating Systems**
 - Exposure to Unix/Linux, virtual machines and scripting
- **Electronics III**
 - Analysis and design of different configurations of op-amp circuits

Co-op Experience

Research Assistant (Applied Research)

Conestoga College (January to April 2017)

- Designed a PCB containing complete solution for ultrasonic transducer
- Researched in-depth information on underwater ultrasonic technologies
- Investigated off-the-shelf products to generate design ideas
- Prepared Bill of Materials for prototypes and technical reports
- Organised meetings and maintained communication with the sponsor

Network Technician

Computer Cabling Inc. (May to August 2016)

- Tested and performed Fiber optic cable splicing
- Responsible for network security and installation procedure
- Identified, troubleshoot and resolved network related problem
- Assisted in installation of structured cable network and networking equipment

TECHNICAL PROJECTS

Mobile Camera Platform (Sept 2016 – November 2016)

- Designed and developed a mobile camera platform controlled by joystick through Wi-Fi link between host desktop computer and platform embedded controller
- Programmed host supervisor and used Raspberry Pi for Wi-Fi communication between host and platform supervisor

Embedded Robot Controller (Jan 2016 – April 2016)

- Designed and integrated embedded controller system using microcontroller, clock and reset logic, motor control outputs, sensor inputs, communication and troubleshooting interface
- Used schematic capture and board layout package to produce PCB manufacturing data
- Wrote C code for board bring up process

Audio Amplifier and AM receiver (Sept 2015 to Nov 2015)

- Designed and built a power supply for the multi-stage amplifier circuit
- Integrated an AM receiver tuned for the local radio station with the Audio Amplifier

Work Experience

Conagra Foods (Mixer Operator/Lead Hand, January 2014 - Present)

- Trained new employees in safe operations of the machines
- Responsible for starting up the production at the beginning of the week
- Acted as lead for mixing department

Renin corp. (Architecture/Engineering Assistant, February 2013 – May 2013)

- Worked with building blueprints
- Helped to invoicing and scheduling installation runs
- Made Excel sheets for estimated windows/doors quotes

Volunteer Experience

Central Peel Secondary School (Math Tutor, September 2011 – January 2012)

Flower City Seniors Centre (Cafeteria Volunteer, August 2010 – March 2012)

Interest

Soccer, chess, gardening, computers, volunteering

References

Available on request