

## EDUCATION

### UNIVERSITY OF MINNESOTA

#### BS IN COMPUTER ENGINEERING

August 2017 | Minneapolis, MN

Cum. GPA: 3.35 / 4.0

### MINNETONKA HIGH SCHOOL

Grad. June 2013 | Minnetonka, MN

## RELEVANT COURSES

### UNDERGRADUATE

Algorithms and Data Structures

Computer Networks

Computer Architecture

Embedded System Design

Signals and Systems

Analog Electronics

### GRADUATE LEVEL

Operating Systems

## SKILLS

### PROGRAMMING

Proficient

Java SE/EE • C/C++ • HTML • PHP

UNIX Systems • Bash • Git • SVN

Familiar

Python • Javascript • MySQL

Verilog • Assembly • LABVIEW

### EMBEDDED

Arduino • ARM Cortex M0 • Microchip PIC

Xilinx FPGA • Circuit design & debugging

### LANGUAGE

Fluent in Spanish (Native)

### OTHER

Adobe Creative Suite • Final Cut Studio

Logic Pro •  $\text{\LaTeX}$

## HOBBIES

Electronics projects, guitar playing, recording engineering, long distance running, and hiking.

## OBJECTIVE

Looking for a full time position in the field of Computer Science/Engineering with interests in embedded systems, firmware and network programming. Available starting June 2017.

## WORK EXPERIENCE

### MEDTRONIC | FIRMWARE ENGINEER CO-OP

June 2016 – December 2016 | Mounds View, MN

- Designed and debugged Verilog RTL for a Xilinx FPGA board to bridge communication between a Bluetooth LE module and Cadence emulation systems.
- Implemented a SPI communication protocol for loading firmware into Bluetooth module using a Xilinx FPGA board.
- Created Bash shell scripts that streamline and speed up the build and release process for a medical device virtual testing environment.

### CARLSON SCHOOL OF MANAGEMENT | IT APPLICATIONS DEVELOPER

September 2014 - March 2016 | Minneapolis, MN

- Used Windows Powershell to automate software distribution and installations in computer labs, saving the IT department 20+ monthly man hours of manual work.
- Developed Java app that provides instant notifications of low printer resources.
- Automated migration for 300+ contacts into the school's Salesforce platform.
- Provided extensive front desk technical support for students and faculty.

### UNITEDHEALTH GROUP | TECH. DEVELOPMENT PROGRAM INTERN

June 2015 – Aug 2015 | Minnetonka, MN

- Developed web site based on Java EE & Javascript that allows developers to add, view, and modify mock users for integration testing.
- Performed permutative tests to ensure user privacy on health-care portals.

## PROJECTS

### SPEECH ANALYTICS IPHONE APP

January 2017 - Present

- Developed speech coaching iPhone app with team of 4 other students. App detects and reports the presence of stutters, monotonous tone, long pauses, and use of filler words in a user's recorded speech.
- Technologies used** : iOS, Swift, AudioKit Framework, Audio Signal Processing, Git

### PORTABLE CNC ALTERNATIVE ROBOT

March 2015 - Present

- Created prototype for a mobile self-navigating robot to research portable and affordable solutions to CNC Mills.
- Technologies used** : Arduino, Zigbee, robot localization, PID control loops

### ENGINEERS WITHOUT BORDERS WEB PROJECTS

September 2013 - May 2015

- Developed web tools that allows members to log contacts and activity from donors and a reservation system for checking out tools and equipment.
- Redesigned the chapter's old website with the aim of centralizing information, making content easily editable, and integrating tools for file sharing and email lists.
- Technologies used** : PHP, HTML, MySQL, Drupal

## ORGANIZATIONS

2013-2015	Engineers Without Borders	Webmaster
2013-Present	IEEE UMN Chapter	Member & 2017 Career Fair Coordinator
2014-Present	FIRST Robotics	Volunteered as High School mentor
2016-Present	IEEE Women in Engineering	Recruitment Officer