Brennan Garrett

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Objective

To obtain a full time job/summer internship as a software engineer developing algorithms for embedded systems

Education

University of Michigan   2014-2017

Majoring in Computer Engineering, with a concentration in Embedded Systems

GPA: 3.72/4

Relevant Coursework: Advanced Object-Oriented Programming, Embedded Control Systems, Computer Organization

Oakton High School   2010-1014

Work Experience

Engineering Intern, RT Logic   Summer 2016

- Created packet dissector plugins to analyze UDP messages which were eventually awarded a contract
- Developed a software interface that controlled radio synchronization protocol which will be implemented on UAV
- Implemented new registers in both software and hardware for transmitter modules

Projects

Undergraduate Researcher, Greve Lab   Summer 2015-Winter 2016

- Researched in the University of Michigan's Functional MRI laboratory
- Designed/enhanced Matlab scripts to crop, analyze, and compute vessel growth from MRI Images
- Explored the effects of Dobutamine and electrical stimulation on vessel growth to potentially find a treatment for aneurisms

Project Lead, M-Heal   Fall 2014-Present

- Creating an optical non-invasive glucose biosensor for salivary analysis
- Designing software to read in, analyze, and compute the pixel intensities of our paper strip that will then run through an algorithm to compute the chances of having Type 2 diabetes
- Implementing project with a Raspberry Pi

Awards

- William J. Branstrom Freshman Prize for scholarly excellence
- Optimist Club of Vienna Scholarship – Outstanding student in Academics, Athletics, and Service
- Member of Eta Kappa Nu, the EECS Honor Society
- Four-time Dean's List and University Honors recipient

Skills and Extracurriculars

- Fluent in C++, C. Experience with Java, Python, Javascript
- Applications/Tools: Matlab, Wireshark, CMake, SVN, Perforce
- Experience with Linux, Mac OS, and Windows platforms
- University of Michigan Triathlon Club