**Local Address**

161 Highland St. Worcester, MA 01609

**Matthew Hagan**

mrhagan@wpi.edu

(720) 291-6459

**Permanent Address**

2134 Terrace Dr.

Highlands Ranch, CO 80126

**Objective:** Summer internship in software, electrical, or computer engineering

**Education:** **Worcester Polytechnic Institute (WPI)**, Worcester, MA

**Bachelor of Science**, May 2020

**Electrical and Computer Engineering & Computer Science**, GPA 3.94/4.00

**Courses** – Embedded Computing, Operating Systems, Algorithms, Systems Programming, Digital Circuit Logic, Continuous Time Signal Analysis, Object-Oriented Design, Sensors Circuits and Systems, Machine Organization and Assembly

**EXPERIENCE: Systems Technician**,May 2016 – May 2017, ELBlair LLC, Littleton, CO

* Planned and implemented 30 custom electronic solutions for businesses and consumers
* Built 8 programs in RTI Designer for clients

**IT Architect**, Sep 2015 – Aug 2016, Valor High School, Highlands Ranch, CO

* Helped reconstruct the school’s Learning Management System
* Built software to incorporate picture identification into the schools mainframe
* Helped aid and assist the needs of technology for students and teachers in person

**PROJECTS: Great Problems Seminar**, *How do you learn?*, Aug - Dec 2016, WPI, Worcester, MA

* Researched educational systems/methods yield greatest student success based on student and teacher preferences
* Developed, implemented, and analyzed survey to 161 students and interviewed 3 teachers on classroom preferences
* Met with educational professionals to see what was best way to implement changes
* Created an action plan with a team of four for implementation resulting in 12 page report and poster presentation

**Eagle Scout Project**, *Artificial Fish Habitats*, Aug 2012 - Sep 2013, HRMD, Littleton, CO

* Worked collaboratively with the Highlands Ranch Metro Districts to develop sustainable a solution to low fish population in the area
* Planned, organized, and executed a multi-stage project including 35 people and extensive hours

**SKILLS: Languages** – C, C++, Java, HTML 5, CSS 3, MATLAB, x86-64 Assembly, Bash, Swift 3

**Tools** – Git/GitHub, Doxygen/JavaDoc, Microsoft Office, GDB

**ACTIVITES: Elite Scouting Association**, WPI, Sep 2017 – Present

**Beta Theta Pi (VP of Recruitment)**, WPI, Jan 2017 – Present

**Men’s Varsity Crew Team Manager**, WPI, Dec 2017 – Present

**Men’s Varsity Crew Rower**, WPI, Aug 2016 – Dec 2017

**SERVICE: Bahamas Service Trip**, March 2015, 2016, Valor High School, Eleuthera, BHS

* Helped construct a DIY solar water supply for the children’s home
* Installed new base boards on termite damaged children’s home

**Front Desk Liaison**, May - Aug, 2012-2016, Swedish Medical Center, Englewood, CO

* Aided and assisted patients, families, and various medical staff in whatever was needed