William Bryant

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Education

University of Michigan -- Ann Arbor, MI   Spring 2018

- College of Engineering, Junior
- Major: Computer Engineering
- Minor: Entrepreneurship
- Engineering Honors Program
- IEEE-HKN (EECS Honor Society)
- GPA: 3.55 / 4.00

Current Courses
- EECS 281 – Data Structures and Algorithms
  - Implementing a variety of data structures in C++ programming projects with speed and memory constraints
- EECS 370 – Introduction to Computer Organization
  - Writing a variety of C programs to emulate the low level functionality of a computer

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Experience

Firmware Development Intern, The Chamberlain Group Inc.   May 2016 – August 2016
- Implemented a new Wifi Module onto an existing LiftMaster Garage Door Opener
  - Programmed the module with an open source toolchain on an Ubuntu Virtual Machine
  - Worked with TLS (Transport Level Security) to communicate with pre-production servers via MQTT
  - Communicated with a PIC microcontroller by writing platform specific UART drivers
  - Demonstrated and presented a working prototype that could open and close a door with the MyQ app
- Worked on the creation of modular software components to improve future projects
  - Created the rule engine for a MQTT inspired publish-subscribe information model
  - Assisted in the design and implementation of a hierarchy of software queues

Personal Projects   Fall 2013 – Present
- Created a robot drone that can be controlled from anywhere with WIFI
- Built an autonomous robot that followed lines and avoided obstacles
- Programmed individually addressable RGB LEDs with various light shows

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Student Teams

Project Director, MPowered Entrepreneurship   Fall 2015 – Present
- Working under MPowered, an organization that aims to spread entrepreneurial passion and creativity across Michigan
- Directing Makeathon 2017, a hackathon-like event that facilitates 36 hours of innovation across a variety of disciplines
  - Facilitating a split of Makeathon from MPowered while trying to retain ~300 annual attendees
  - Responsible for finding sponsors, recruiting talent members, and handling event logistics

Core Team Member, Michigan Hackers   Fall 2015 – Present
- Goal of establishing a community of individuals passionate about solving problems with technology
- Hope to accomplish this by teaching newcomers the basics and offering veterans opportunities to grow
  - Help provide mentorship, participate in nation-wide hackathons, and host hack nights and company talks

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Relevant Skills

- Proficient with C/C++, Git, Linux/Unix, Visual Studio, Makefiles, Arduino, and Raspberry Pi
- Experience with Python, Bash , GitFlow, MQTT, Network Protocols, ISRs, Verilog, and GDB