

ETHAN MYERS

ethan@ethanmye.rs | 303.809.1873 | ethanmye.rs

EDUCATION

Undergraduate at the University of Colorado, Boulder. Physics & Math Major, 3.3 GPA
Expected Graduation: May 2021

SKILLS

- *Python, C/C++* — independently learned and wrote code for a variety of custom projects
- *KiCAD* — designed 4 different circuit boards, had them fabricated, and tested them successfully
- *Fusion360* — sketched, animated, and 3D printed several novel designs
- *Windows/Linux* — functioned as a system administrator for Windows, Mac, and Linux computers
- *Manual Machining and Fabrication* — designed and created custom parts using aluminum and steel
- *Photoshop, Mathematica, and Microsoft Office Suite* — worked with each package intensively for school

PROJECTS

CUSTOM 3D PRINTER

2013 - 2018

- Built a custom 3D printer incorporating linear rail, heated bed and ACME leadscrews
- Modified existing firmware to suit unique geometry
- Improved reliability and wrote custom software to support additional improvements

VILLAGE GROUP, LLC

2015 - 2018

- Founded and managed a joint LLC with \$25,000 annual revenue

WIRELESS GARDEN MONITOR

2017 - 2018

- Designed a custom PCB with Wifi, low quiescent boost converter and battery management system
- Included I²C, OneWire, and UART sensor inputs for a variety of environmental sensors
- Utilized a time series database and local MQTT broker to graph historical data on a Raspberry Pi

HIGH TEMPERATURE KILN

2018

- Formulated a high temperature (>1200 °C) insulating refractory material for use in an electric kiln
- Reverse-engineered existing patent and technical data to create a more effective refractory
- Built a standardized testing apparatus to validate formulas consistently to organize trials

GEIGER COUNTER

2015 - 2016

- Designed a small Geiger counter based on the Soviet SBM-20 tube
- Built a 400V solid state single stage boost converter and counting mechanism
- Based schematic solely on discrete parts, with foldback current limiting and a bleeder resistor

EMPLOYMENT & VOLUNTEERING

Special Olympics Colorado, *Swim Coach* — assisted and mentored disabled individuals 2010-2017
Walker and Dunlop, *Intern* — built property financial models for commercial real estate 2016
Sam's Club, *Cashier* — opened and closed the store regularly 2018
Castle Pines Village, *Swim Coach* — taught groups aged 4 - 16 basic swimming 2014-2017