

Matthew White

915 E 4th Ave, Denver CO, 80218
☎ 508-409-7073 | ✉ mtwhite94@gmail.com

Education

University of Denver

Denver, CO

B.S. IN ELECTRICAL ENGINEERING

Sep. 2017 - Jun. 2021

- Minor in Mathematics
- GPA: 3.76
- Tau Beta Pi National Honor's Society Member

Skills

Programming Most Experience - Python | Some Experience - C, LaTeX, HTML/CSS, ROS

Software AutoCAD, Solidworks, MicroStation, Bluebeam, MATLAB, Office Suite

Tools/Hardware Oscilloscope, Multimeter, Function Generator, Hand Tools

Work Experience

Engineering Intern

Remote/Denver, CO

ULTEIG

Jun. 2020 - Present

- Assist senior engineers with various substation design projects: 12.4KV-345KV.
- Draft both new drawings and drawing corrections through the use MicroStation/AutoCAD.
- Translate physical drawings and AC/DC schematics into one-line diagrams.
- Aid in the design of a fiber optic network that spans more than 30 substations by developing wirelists and detailed wire assembly drawings.
- Built a tracker to ensure that quality checklist were completed for projects.

Radon Mitigation Technician

Centennial, CO

SWAT ENVIRONMENTAL

Jun. 2018 - Nov. 2019

- Installed over 300 radon mitigation systems by adhering to architectural drawings.
- Coordinated with customers and contractors to ensure proper integration of radon systems.
- Operated independently and maintained a consistent schedule by managing work orders, and planning which led to an average of 1.5x the expected number of installations a day.
- Complied with Radon standards and OSHA guidelines.

Electrical Apprentice

Franklin, MA

GRILLO SERVICE SOLUTIONS

Dec. 2014 - Jan. 2018

- Installed: single phase electrical systems, data networks, and low voltage systems in both residential and commercial applications.
- Translated blueprints, circuit diagrams and schematics to ensure design requirements were met.
- Analyzed expected current draw, voltage drop, and allowable conduit fill to repair and expand existing electrical systems.
- Complied with NEC standards and OSHA guidelines to install safe and effective wiring.

Projects

Robotic Dave | Capstone w/ Trimble

University of Denver

TEAM MEMBER | ELECTRICAL ENGINEER

Sep. 2020 - Present

- Full design of a robotic system adherant to ISO 18497 - A minimally detectable object for automated agricultural machine safety.
- Placed emphasis on designing to system requirements and writing documentation that enabled easy reproduction.
- Designed schematics and wiring with tools like autoCAD and Multisim.
- Generated test scripts with Python to evaluate the impact of changing parameters and to validate design decisions.

Capture the Flag Robot

University of Denver

TEAM LEADER

Jan. 2020 - Jun. 2020

- Gained leadership experience by guiding a team of four engineers through a 20 week engineering design project.
- Developed and constructed a three wheeled 12V robot capable of autonomous navigation.
- Implemented algorithms for manual and autonomous navigation using python.
- Worked in an interdisciplinary way to ensure integration of electrical, mechanical and computer sub-systems.

Prana-Veda Farm

Johnston, RI

Co-FOUNDER

Mar. 2015 - Dec. 2016

- Built out and operated a 2.5 acre market garden that produced vegetables, herbs and cut flowers.
- Managed vegetable production, harvest, distribution and sale via farmers markets, restaurant wholesale and weekly farm share memberships.