

LUKAS M. PFROMM

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EDUCATION

Oregon State University, Corvallis, OR

BS, Electrical and Computer Engineering, expected June 2022

SKILLS AND EXPERIENCE

C/C++

Handling of data structures, memory management, problem-oriented algorithm development

Assembly Language

Practice with integer arithmetic, data manipulation between locations, output to LCD display on the ATMEGA 128 microcontroller

Circuits and Soldering

SMD soldering experience, experience designing and ordering PCB's using Eagle.

3D Modeling and 3D Printing

3D modeling experience using Fusion 360, 3D printing of models and project parts

PROJECTS

Shop Cleaning Robotic Vacuum [2020-2021]

Lead, organized and worked in embedded sub-team of three members charged with design of basic navigation, cleaning motors, and auxillary sensors. Individual responsibility for microncontroller selction, circuit board design, and embedded programming. Responsible for facilitating communicaitons between and among all sub-teams.

Oregon State Robotics Club [2018-2019]

Individual research and design of components and circuits, circuit assembly, data sheet navigation, coordination with team members and project leadership for the creation of an underwater robot.

Servo PID Loop [2020]

Designed and built servo using a PID loop with a feedback potentiometer, a DC motor, and a motor controller.

Solar Panel Characterization [2020]

Designed and built system including current sensor and potentiometer measured by Arduino to determine optimal load for solar panel power generation.

Designing and building desktop computers [2012-Present]

Research and selection of appropriate hardware, assembly and cable management, setup of software, troubleshooting of issues for the construction of five desktop computer systems.

HOBBIES AND AWARDS

Equestrian

US Pony Club, Rated as a C+, 2016 (Less than 5% of the 10,000 members achieve the C+ rating)

Member of United States Eventing Association 2012-20, competed at regional and national level

Kansas Platinum Seal of Biliteracy

English and German, 2017 (Awarded for high level of proficiency in both languages)