

RUDY HILL

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WORK EXPERIENCE

Flatirons Field Services

May 2017 - Present

Engineering Intern

- Developed a project management dashboard for the Engineering Department of a mid-stream company. The dashboard was developed as a web app made almost entirely from scratch, intended to give a graphical view of expenditures from an in-house database. It was created using HTML, CSS, JS w/ Google Charts API, PHP, and Microsoft SQL.

EDUCATION

University of Colorado, Boulder

August 2017 - May 2020

Bachelor of Science

Electrical and Computer Engineering

PROJECTS

Obstacle Avoidance Robot

Designed and built a robot whose purpose was to drive indefinitely. If an object came into its trajectory, the robot adjusted itself to avoid the object. Achieved through an Arduino, IR sensor, a motor driver circuit, and a comparator circuit.

Line Following Robot

Designed and built a robot whose purpose was to follow tape along the floor. Achieved by using the TI MSP432, a pre-built motor driver circuit, and light sensors on the bottom of the robot.

ALU in Verilog

Wrote an arithmetic logic unit in Verilog. Tested on the Altera DE10 Lite Board.

TECHNICAL SKILLS

Proficient	C/C++, Python, PHP, Vim, (Arch) GNU/Linux, Microsoft Office Suite
Intermediate	HTML, CSS, Javascript, SQL, Verilog HDL
Beginner	Bash Scripting, Batch Scripting, L ^A T _E X, Blender (Video Editing), GIMP

SCHOLARSHIPS AND CERTIFICATES

Jun. 2017 Transfer Excellence Scholarship for good performance going into CU Boulder.

Jun. 2016 Vice-Presidential Scholarship for high achieving high school students.