Carter Boyles

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Commented [A1]: Add Discrete Event Simulation Experience

Education

Oregon State University | GPA: 4.0 |

| Corvallis, OR | Sep. 2022 - Present |

BS Electrical and Computer Engineering Minor: Computer Science

| Expected Graduation: Jun. 2025 |

Experience

Global Formula Racing | Design Engineer

| Corvallis, OR | Sep. 2022 - Present |

- · 3D modeling with CAD software (NX) to create parts to test and optimize battery cell connection
- · Create and label technical drawings for modeled parts with NX software
- · Production of physical models with milling machine and band saw, tolerance of .005 in.

Personal Projects

Automatic Watch Winder

| January 2023 |

- Design and create a custom circuit powered by an Arduino controlling a stepper motor to rotate and wind mechanical watches over time
- · Program Arduino microcontroller with C/C++
- · Build electronic circuits with breadboard and microcontroller, soldering.

Transformer Efficiency Research Project

| February 2022 |

Build transformers with iron toroid ferrite core and use multimeter/oscilloscope to observe the
effects of temperature, loops of transformer, loop ratio, and different power sources on efficiency
and power output of transformers.

Project Portfolio Website - https://boylecar.github.io

| January 2023 |

- · Build a website from scratch with HTML and CSS to display my resume and project portfolio
- · Track my growth as engineer through planning, process, and reflection of my projects.

Wooden Chest | January 2023 |

- · Create technical drawings and build a wooden chest to store photos and notebooks.
- · Use table saw, miter saw, jointer, planer, and apply finish.

Knowledge and Skills

- Proficient in: Python, C & C++, HTML, CSS, JavaScript, Matlab
- · CAD modeling and 3D printing software
- · Circuit analysis and design, soldering
- Machines/tools: milling machine, band saw, table saw, miter saw, jointer, planer, sander, router, lathe
- · Multimeter, oscilloscope, power sources