

Spencer Beer

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Education

Bachelor of Science, Computer Engineering | May 2024 | Colorado State University – GPA 3.653.

Skills

Programming Experience: Java (1 year), JavaScript (1 year), C (1 year), Python (< 1 year), MATLAB (< 1 year), Assembly (< 1 year), HTML & CSS (< 1 year), C++ (< 1 year)

Microsoft Office Applications: Excel (1 year), Word (3 years), PowerPoint (< 1 year).

Software Tools: Visual Studio Code (1 year), Quartus Prime (< 1 year), Kiel uVision5 (< 1 year).

Physical Skills: Soldering (1 year), Breadboard Circuit Design (2 year).

Engineering Projects

Raspberry Pi Temperature Sensor, GenoFab, 2022 – Present: Designing a temperature sensor, that monitors fluctuation in freezer temperatures, with remote connection to a web application.

Website Development, Personal Design, 2022: Designed and developed a website using HTML and CSS to host personal information.

Voltage Adjuster, Colorado State University, 2021: Design and development of a prototyped variable voltage source, and then constructed a functional circuit design.

Oscilloscope Lab, Colorado State University, 2021: Design of an RLC circuit that met response constraints.

Discrete Mathematical Structures Lab, Colorado State University, 2021: Implement mathematical code developed to ease understanding for proofs using Python 3.

Electric Water Bottle, Personal Design, 2019 – 2020: Designed and developed prototype, programmed solenoid with Arduino Uno (C++), and verified functionality of system.

Microprocessor Lab, Colorado State University, 2020: Designed a simulated microprocessor with logic gates, and Quartus Software.

Game Design, Colorado State University, 2020: Design of a game with Java, given unfinished code, and required to finish source code and test functionality.

Fitness Application, Personal Design, 2019 – 2020: Created a functional web-based fitness application.

T-Shirt Cannon, Ponderosa High School, 2019 – 2020: Worked with a team of four to design a prototype and eventually implement an award-winning t-shirt cannon.

Python Instagram Bot, Personal Use, 2018: Ran a raspberry pi python script that functioned as an automatus commenter, liker, and follower with VNC and Linux OS.

Other Work Experience

Lead Cook, Bagel Stop: 2019 – 2020, Parker, CO

Team Trainer, Culver's: Parker, CO, 2017 – 2018

Crew, American Design and Landscape: Parker, CO, 2018

Leadership & Involvement

Cross Country/ Track Team Leader, 2019 – 2020: Taught and lead for high school team.

Ski and Snowboard Swap, 2014 – 2016: Organized affordable gear for community with ski team.

Awards

Dean's List, Colorado State University: 3.8 GPA, Fall 2020, 2021.