Abiy Fanta

4700 Hutson Way, Elk Grove, CA 95757; abiyd2015@gmail.com | 916-832-2827

EDUCATION

California State University, Sacramento, Ca
B. Sc. in Computer Engineering   **Dec. 2023 - Present**

Cosumnes River College, Sacramento, Ca
A.S. in Engineering – Electrical/Computer Option   **Sept. 2022 – Dec. 2023**

Franklin High School, Elk Grove, Ca
High School Diploma - STEM Pathway in Engineering Design   **May 2022**

EXTRACURRICULAR

- **President - Developers Student Club at CRC**
  - Collaborated with others on computer science projects and studying programming concepts
  - Coordinated practice and team collaboration for Coding Competitions
- **Club Officer - MECS (Mathematics, Engineering, and Computer Science) Club**
  - Organized and led activities/workshops involving circuits, coding, and relevant concepts
  - Participated in a SMUD sponsored Solar Boat Competition

RELEVANT COURSES

Computer Aided Design/Drafting	Physics: Electricity and Magnetism	Physics: Heat, Light, and Waves
Structured Programming	Object-Oriented Programming C++	Linear Algebra
Data Structures & Algorithms	Discrete Structures	Introduction to Logic Design
Intro to Computer Architecture	Differential Equations	Circuit Analysis

SKILLS

- **Software:** Microsoft Office, AutoCAD, Inventor, MATLAB, Intel Quartus, NI Multisim, and SQL
- **Coding Languages:** Experienced with C++, Verilog, Python, and HTML/CSS/JS

WORK EXPERIENCE

- **Software Engineer Fellow**   **July 2024 – Present**

- **Volunteer - SMUD Museum of Science and Curiosity**   **July 2023 – Present**
  - Ensured visitors follow established safety procedures while using electrically powered exhibits
  - Assisted visitors explore and play with educational STEM wind and solar powered exhibits
  - Supported and inspired students through simulations, animations, and videos

- **NASA Community College Aerospace Scholar (NCAS)**   **June 2023 – Dec. 2023**
  - Received training to perform professional level research and documentation
  - Participated in the online workshop consisting of live video chats with NASA experts
- **Tutor – Cosumnes River College MESA**   **Oct. 2023 – Dec. 2023**
  - Assisted student with questions for multiple Computer Science and Math courses

PROJECTS

- **SMUD Solar Regatta:** Was part of a team that designed and assembled a solar powered boat. The boat had to pass safety inspections while also working.
- **SpeedUp:** My submission for the 2023 SacHacks Competition, a website that predicts your ETA and distance using a Google Maps API and a few calculations with data drawn from Google Maps.
- **Wi-Fi Security System using a Raspberry Pi:** Designed a Wi-Fi security camera using Python and an Open-Source frontend called "MotionEye"- I also used Onshape to design a case and mount to 3D Print.
- **Pinball Machine:** Worked in a group of 6 to create a Titanic-themed pinball machine. Used solenoids, limit switches, relays, and motors to create reactive obstacles.
- **Can Crusher:** Created an automatic pneumatic can crusher alongside four group members.