Joseph Fong

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SUMMARY

Organized and dependable second year college student studying Electrical and Computer Engineering, successful at managing multiple priorities with a can-do attitude. Willingness to take on added responsibilities to meet team goals. Self-motivated and independent with a passion for learning.

EDUCATION

The Ohio State University, Columbus, Ohio   May 2025
B.S. Computer Engineering
- 3.931/4.0 cumulative GPA

ACADEMIC ENGINEERING PROJECTS

Electronics Club   August 2022 - Present
- Attended various workshops where ideas of hardware components and skills are shared.
- Practiced hands-on working on different kinds of electronics and exploring numerous technologies and standards.
- Work on personal projects involving Arduino Uno board to control various circuit designs.

Simon Game   August 2022 – November 2022
- Programmed FPGA to make a Simon says memory game with Intel DE2-115 board and 4 button box.
- Utilized Altera Quartus Prime to write VHDL and create block diagrams to create hierarchy of multilevel design.
- Collaborated in group of three to complete and document project.

AEV Monorail Design Project   January 2022 - May 2022
- Developed Wind Propelled Monorail AEV prototypes and final design using SOLIDWORKS.
- Used Arduino board and Arduino software to control project and execute time trials.
- Utilized MATLAB software to capture data from the Arduino board and analyze performance and energy consumption

Mini MATLAB Design Project   December 2021
- Designed a script to determine aerodynamic characteristics of a wing.
- Utilized MATLAB software to complete calculations and design.

WORK EXPERIENCE

Tech Corps, Columbus, Ohio   May 2022 – August 2022
Instructor/Intern
- Educate and excite youth through the medium of technology, teaching them concepts of computer science and computer hardware.
- Manage and lead classroom of 20 students.
- Create inclusive environment for children to enjoy while also learn and become passionate about technology.

Graeter's Ice Cream, Gahanna, Ohio   September 2021 – April 2022
Team Member

SKILLS

- Skilled in Microsoft Office and Google Workspace products
- Project problem-solving with VHDL, MATLAB, C++, XML, Arduino, and Java
- Experience with FPGA using Altera Quartus Prime
- 3D modeling in SOLIDWORKS