Yon Maor

Electrical/Computer Engineering & Art Student

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EXPERIENCE

TEST + DATA VISUALIZATION ENGINEERING INTERN | SQUARE
June 2024 - August 2024 | Oakland, CA

➜ Adapted and automated secure hardware security processes and implemented them at the factory
➜ Built custom web based data access app from scratch
➜ Improved on custom web based data visualisation functionality
➜ Authored data reviews of factory test station data

TEACHING ASSISTANT | 15104 INTRO TO CREATIVE CODING
Fall 2022, 2023, 2024 | Pittsburgh, PA

➜ ∼ 100 person introductory programming course teaching javascript
➜ Ran lab and office hours for approx. 20 students several times weekly

MANUFACTURING ENGINEERING INTERN | ULTIMA GENOMICS
Summer 2021, 2022 | Newark, CA

➜ Designed and fabricated electronic systems for safety and control applications
➜ Designed and piloted framework for engineers to build custom GUIs using Flask, jinja, and JSON
➜ Built GUIs and TUIs to automate equipment bring up, calibration, and qualification

PROJECTS

WEB LEAD, DEVELOPER | LUNAR GALA
Nov 2022 - Mar 2024 | Pittsburgh, PA

➜ Lead concept building, design, and development of experimental website
➜ Managed team of 9 designers and developers, communicated with creative directors and other creative team leads
➜ Designed and prototyped using Figma, implemented via javascript, react, p5, and three.js
➜ 2023 show: 2023.lunargala.org
➜ 2024 show: in progress

RESEARCH ASSISTANT | BIOHYBRID AND ORGANIC ROBOTICS GROUP
Aug 2023 - May 2024 | Pittsburgh, PA

➜ Designed and implemented a multi-user GUI for real time control and monitoring
➜ Designed and prototyped using Figma, implemented using python Flask, openCV
➜ Sole designer and developer responsible for the GUI, having to come create my own schedule and communicate deliverables with the researchers

CAMPER VAN CONVERSION | GAP YEAR PROJECT
2020

➜ Converted old cargo van into livable camper
➜ Designed off-grid 12V power system, with solar and alternator charging
➜ Insulated and floored the van, built and designed bed, cabinets, counter top, etc.
➜ Lived in my van and travelled around the US for about 8 months

SKILLS

PROGRAMMING

Proficient:
Python • JavaScript • p5.js

Familiar:
C • Shell • Arduino
LaTeX • HTML/CSS

DESIGN

SolidWorks • Inventor • KiCAD
Figma • Grasshopper • Maya

FABRICATIONS & PROTOTYPING

3D Printing • Laser Cutting •
CNC Machining
Manual Milling & Turning •
Hand Tools

EDUCATION

CARNEGIE MELLON UNIVERSITY

BACHELOR'S IN ELECTRICAL COMPUTER ENGINEERING & FINE ART
Jan 2021 - Present | Pittsburgh, PA

Relevant Coursework:
• Electronic Devices and Analog Circuits (18-220)
• Power Systems (18-372)
• Rapid Prototyping Tech (15-294/394)
• Soviet Futures: Revolutionary Design (Russian Language and Culture)
• Stalin and Stalinism (History)
• Possiblistic Design
• Drawing with Machines (Art)
• Small Things (Art)
GPA: 3.8 / 4.0

REFERENCES

References available upon request