

Maria Brown

Motivated computer engineer seeking an opportunity to excel in a dynamic and evolving technological landscape. Working with a strong understanding of coding in multiple languages, project management and complex problem solving skills .

EDUCATION

Loyola University of Maryland, Baltimore

Major: Computer Engineering
BS Computer Engineering

Computer Engineering Skills and Projects

Skills and Competencies

Tableau, VHDL, VLSI, Python, AutoCAD, MS Excel, MATLAB, Java

Systems Engineering Life Cycle Project — Project Manager

Created a team of engineers of different fields to solve a real world engineering problem- the time variable in mass welding. Applying the Systems Engineer Vee, I allocated tasks as well as created a weekly set of goals using a gantt chart. After choosing our topic, I created multiple 3D models of prototype nails, using AutoCAD, that implemented a version of explosive welding combined with bolt fastening. After creating 3-d printed models of these prototypes we concluded that a form of explosive welding would be the most time efficient with the trade off of it being the more expensive option.

EXPERIENCE

PYTHON — *tutoring and scripting*

During my tenure at Loyola University I instructed and guided students in developing their coding skills from beginner to intermediate and expert levels. I supported students in their project work, including website development using Django and other relevant libraries. I received positive feedback from students for my ability to simplify complex concepts and foster a positive learning environment.

Brown Builders — *AutoCAD Designer*

August 2018 - June 2020

Responsible for designing digital models and 3D renderings for all renovations and additions using the AutoCAD modeling tool.

Hospitality Experience — *Head Server, Host*

February 2023 - Present

Designed and executed floor plans, efficiently assigning tables to optimize seating capacity and accommodate customer preferences I oversaw the delegation and coordination of side work tasks among the staff, ensuring a clean and organized environment throughout the entire shift.

The Katz JCC — *Head Counselor*

May 2019 - August 2019

Managed daily operations and care of a group of 15+ children, ensuring their safety, well-being, and engagement. Effectively communicated with parents and guardians, addressing any concerns or conflicts promptly and providing updates on their child's progress and activities.

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Relevant Coursework

Linear Circuit Analysis
Computer Architecture
Digital Logic
Electronics
Physics I-III
Programming Tools
Statics
Probability and Statistics
Experimental Data
Digital Logic
Object-Oriented Design
FPGA Design
Two-Dimensional Design
VLSI Design
Ordinary Differential Equations
Thermodynamics
Microprocessing

Memberships

Women's Engineering Club

Met with fellow engineering students and former graduates to discuss trends and strategies for career planning

Philosophy Club

Met with like minded people once a month to lead the current philosophical issues. Fostered a community of like-minded individuals.