

SUMMARY

A combination of interpersonal skills and technical aptitude positions me to excel in roles that involve the promotion and transfer of technical knowledge. In my eyes seeing a list of test cases light up green is just as invigorating as a successful customer engagement. I enjoy building and troubleshooting complex systems as well as getting my hands dirty with coarse manufacturing and repair. I am perpetually learning and always up for a challenge.

PROFESSIONAL EXPERIENCE

Sky Candy LLC

Unity Developer, Orlando, FL 1/2021 – 6/2021

- Fulfilled a contract to create an augmented reality data visualization application under time and budget constraints
- In association with the Orlando Gamespace game development studio
- Created the framework, scripts, Unity tools, and integrated 3D assets
- Developed in Unity and deployed on android

Media Star Promotions

Brand Ambassador & Marketing, Orlando, FL 2017 - 2019

- Fostered brand awareness and PR among select social groups within the central Florida territory
- Exhibited excellent verbal communication skills and salesmanship with over 100 successful "individual of interest" engagements in a day

James F Mullen Co

R&D ~ Technical Design ~ Manufacturing, Merrimac, MA 2011 - 2014

- Utilized state of the art 3D laser scanning equipment to reverse engineer and inspect ground turbine engine components
- Created and modified 2D blueprints and 3D models with AutoCAD
- Created, updated, and used existing manufacturing processes to create manufacturing orders per customer request.
- Guided new projects through the production floor to completion for the purpose of initial R&D, assessing issues, and improving processes
- Operated manufacturing machinery including a CNC milling machine, bridgeport mill, hydraulic press, plasma cutter, and sand blaster
- Utilized many computerized and hand inspection tools in the quality control department including calipers and micrometers
- If you choose to contact this company you can ask for the company president Robert (aka Bob) Mullen and mention my name

Bradford Resort

Resort Ambassador & Ski Instructor, Bradford, MA 2008 – 2011

- Led downhill ski lessons with groups of 4-12 people
- Acted as an ambassador between the resort and its patrons promoting the brand and increasing awareness of resort amenities

EDUCATION

Bachelors in Computer Science

Western Governors University
December 2020

SKILLS

Excellent written and verbal communication skills, especially in the context of brand promotion & sales

Experience with several programming & scripting languages including Javascript, Java, C#, C++, Python, and HTML / CSS

Ability to create technical blueprints and 3D models

Willingness to get hands on with industrial manufacturing machinery

Balancing an outgoing personality with meticulous attention to detail

Touch typing ~50 wpm

CERTIFICATIONS

CompTia Project+

Itil 4 Foundations

PERSONAL PROJECTS

Portfolio Website

A portfolio containing videos, live demos, and code examples for some of my favorite personal projects is viewable on my website: <https://JoeHome.org/>

Adding With Logic Gates

An simple adder circuit made from logic gates

Atomic Simulation

The main idea of the project was to simulate matter at the atomic level to more intuitively understand chemistry and physics. It was created in Unity using the C# programming language. A live version is playable on my website.

Neural Net Controlled Camera

The neural net was trained with python tensorflow using the Unity MLAgents plugin. It takes no human input and directs a camera to follow a target within the virtual environment. A live demo of this is also playable on my website.

Bubble Pop Vr

A casual VR game where the player pops balloons with various tools in a cartoon world. It supports local multiplayer and uses custom vr input scripts (C#).

Augmented reality classroom App

Utilizing the Vuforia API in Unity 3D this mobile application allows students to view a virtual microscope with various slides on their desk using augmented reality.

SpeakNotes App

This native Android Java app loads notes from google's firebase database and reads them to headphones with a text to speech API so notes can be reviewed on the go.

Experiments with Portals

A 3D game in unity experimenting with portals like in the game portal.

“BeFluent” Language Learning App

A native android java application that teaches a language of the user's choice.

Virtual Memory garden

An anniversary gift created in Unity 3D with C#.

Capstone University

A virtual university that can be explored from a web browser using WebGL and C#.