

## 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 on the first try is just as invigorating as closing a sale. 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

App Developer, Orlando, FL 2/2021 – 4/2021

- Fulfilled a contract to create an augmented reality data visualization application under time and budget constraints
- Created the project framework, scripts, and integrated existing assets
- Deployed project onto android architecture

### 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 2010 - 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 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 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

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### 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#.