SHANE C. MURPHY
Embedded Engineer

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OBJECTIVE

I am driven by the desire to learn, create, and educate.

I have 5+ years of education and professional experience in Software Engineering, Robotics/AI as well as 10+ years of experience in Graphic Design, granting me flexibility when approaching both hardware and software solutions.

SKILLS

Programming	Software	Hardware/Embedded	Design
Java	Fusion 360	Microcontrollers	Data Structures
C++	TinkerCAD	*(ARM family)*	Interfaces
C#	Subversion	Passive Components	Modular Design
Python	Git	Circuit Design	Software
C	Netbeans	*(Combinational/Sequential)*	Engineering
MATLAB	Eclipse	Computer Vision	UML
RS-232	Quartus II	Sensors/Actuators	Drafting
OPL/TAL	Visual Studio	Circuit Analysis	Layout
HTML	KiKad	Logic	Composition
CSS	Microsoft Office	Datasheet Analysis	Web Design
Javascript	Arduino IDE		Graphic Design
XML	Dreamweaver		Transcompilers
	Photoshop		
	Illustrator		
	InDesign		

SELECTED EXPERIENCE

EMBEDDED ENGINEER • SKY-SKAN • *(2018 – 2020)*

Created and maintained hardware drivers for the planetarium theater equipment including lighting, projectors, relays, and manual panel systems.

Wrote internal software for improvement of existing hardware configuration processes.

Developed GUI software for communication with DMX and ART-NET devices.

PROGRAMMING INTERN • RING SYSTEMS • *(2017 – 2018)*

Worked in a small startup environment, designing and coding an OPL/TAL to C# transcompiler intended to tokenize and translate OPL source code into compilable C# code.

Additionally oversaw all aspects of the project repository via a local Subversion server.

EMBEDDED ENGINEER COOP • ZOLL MEDICAL • *(2016)*

Participated in the development of Zoll's AED 3 defibrillator product; worked with a small team in an Agile environment (SCRUMM) to refactor, develop, and maintain software code and embedded firmware.

Developed and maintained internal development tools for use by both RD and QA departments.

STEM RESEARCH ASSISTANT • SSU • *(2015 – 2016)*

Assisted his professor in researching BirdBrain Technology LLC's educational "Finch" robot, appraising its utility in robotics education, and developing a curriculum based around its use.

EDUCATION

BACHELORS OF SCIENCE, COMPUTER SCIENCE, Concentration in Robotics and AI

Salem State University, May 2018

BACHELORS OF FINE ARTS, ILLUSTRATION

Montserrat College of Art, May 2010

ACTIVITIES

BOY SCOUTS OF AMERICA

Obtained Eagle rank and participated in BSA activities for 10+ years.

SALEM STATE ROBOTICS CLUB, TREASURER

As one of the original founders, helped plan events and write proposals to get the club funded and recognized by the University.