

Adam Hathon

+1 978 828 9141

<https://ahathon.github.io/>

a_hathon@yahoo.com

Work Experience

Tech-Etch

February 2020 - PRESENT

Automation/Process Engineer

- Designing control boxes for 6-axis robot arms and programs to automate processes.
- Evaluating parts and their electrical test data during the manufacturing process and compiling data for the customer.
- Additional tasks from previous position.

Tech-Etch

April 2018 - February 2020

Engineering Technician

- Writing software to interface with electrical test equipment.
- Devising solutions for various manufacturing process issues.
- Writing Excel macros to compile electrical test data.

Education

Bristol Community College

2017

As. Engineering Science

Projects

Vision System — Rendering Engine

A tool for analyzing and improving code quality in Python projects

- Rendering engine written in C++ and GLFW
- Takes an processes live feed from a machine vision camera over GigE
- Allows for point-to-point measurements and saving screenshots/measurement data.
- Designed for a Linux environment.

Arduino Pagers — Paging System on a Custom Device

A custom paging system designed to notify users of specific events.

- Designed and built a paging system using an Arduino Feather M0 microcontroller
- Circuit design in AutoCAD and enclosure in SolidWorks
- Programmed the device with a custom protocol for targeted notifications
- Activates a vibration motor and LED when triggered.

Skills

Programming Languages: C, C++, C#, Java, Python, ARM, x86, Verilog

Tools: IDA, Ghidra, SolidWorks, AutoCAD

Technologies: OpenCV, .NET, OpenGL/GLFW

Achievements

- Successfully designed a control box, program, and peripherals for a robot cell used to assemble and test medical circuits, merging lay-up and electrical test processes.
- Written several rendering engines in various graphical frameworks, including the Valkyrie Game engine.
- Wrote a micro-kernel for the Raspberry-pi.