Austin Bernard Stockwell

106 Topsail Drive, Boulder City, NV 89005

(219) 671-9136 • austinbstockwell@gmail.com • linkedin.com/in/austinbstockwell/ • github.com/AustinBStockwell
austinbstockwell.github.io

EXECUTIVE SUMMARY

Goal-oriented and self-motivated with a strong belief in adaptability and lifelong learning. Focused on building technologies and businesses that create quantum leaps in innovation for the future progress of humanity. Conscientious, with a proven ability to interface across multidisciplinary teams. Continuously looking for ways to improve products and processes.

EDUCATION

Purdue University   2017
Bachelor of Science in Computer Engineering Technology
    Core Concepts:

- Embedded Systems
- Information Technology
- Object-Oriented Programming
- Data Science

FAA Certifications: Certified Flight Instructor & Commercial Pilot (S.E.L. / M.E.L.)   2018 - 2019

SKILLS

Programming Languages: Assembly, VHDL, C, C++, C#, Python, SQL, HTML, CSS
Softwares: CodeWarrior, MATLAB, LabVIEW, Xcode, Visual Studio, Xamarin, MySQL, Grafana, Tableau, Excel

- Communication Protocols (I2C, SPI, USB, RS-232)
- Field Programmable Gate Arrays
- Microcontrollers
- Digital Signal Processing
- Soldering & Breadboarding
- Test Equipment (Oscilloscopes, Multimeters, etc)
- AutoCAD
- 3D Printing (Fused Deposition Modeling)
- .NET / .NET Micro Frameworks
- Relational Database Design
- Git
- Technical Documentation

EXPERIENCE

Grand Canyon Airlines   2020 - Present
Pilot

- Operate DHC6 - DeHavilland Twin Otter under FAR part 135 Regulations
- Interact with customers to provide the best tour experience

Service & Test Engineer   2017 - 2018
MTD Products / Precise Path Robotics

- Improved engineering documentation and service manuals
- Repaired and serviced autonomous robots in the field to the component level
- Liaison between engineering team and customer

3D Printing Lab Administrator   2016 - 2017
Purdue School of Engineering & Technology

- Streamlined lab services, documentation, and record systems to improve lab effectiveness
- Built and maintained lab printers
- Delivered presentations to departments and customers highlighting lab services

PROJECTS

Financial Database

- Designed a database in MySQL for financial data (assets, liabilities, bank transactions, credit cards, etc)
- Created GUIs using C# and Python
- Interfaced database with Grafana and created custom BI dashboards for data visualization and analysis
- Wrote SQL code to manipulate data and automate processes

MIDI-Enabled Calliope Music System

- Designed an embedded system that parsed incoming MIDI messages from a serial data-stream
- Controlled external valve actuators and solid state relays via analog outputs of a micro-controller based on a decision structure dependent on incoming MIDI data

FPGA Interval Trainer

- Designed in Quartus Design Suite and implemented on an Altera DE-2 FPGA board
- Tested musical scale knowledge by accepting, storing, and validating user input
- Utilized various sequential and combinational logic circuits to accomplish task

ACTIVITIES

- Founding member of AIAA chapter at IUPUI
- EAA Member