Austin Bernard Stockwell

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EXECUTIVE SUMMARY

Goal-oriented and self-motivated engineering technologist 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
- Ensure the safe and efficient operation of aircraft
- 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