Stephen King

330-635-2509 | stephenking314@gmail.com | linkedin.com/in/stephen-king-5b160b75/ | Gilbert, AZ

EXPERIENCE

Northrop Grumman
Chandler, AZ

Senior Principal Software Engineer — *February 2018– Present*

- Migrated 32 bit C++98 Commodity Control application to use modern toolset (64 bit C++17 and cmake)
- Provided on-site console and remote support for several Antares ISS Commercial Resupply launches
- Transitioned several internal projects to utilize Continuous Improvement (CI) pipelines in GitLab
- Mentored coworkers through transition to git and other technical issues
- Created and modified Java applications and configuration files for mission specific ground support equipment
- Created and modified software design documentation and other technical documentation
- Peer Reviewed coworkers merge requests, software design, and technical documentation
- Wrote, optimized, and used scripts for log analysis
- Used Valgrind and gdb to diagnose and remedy memory/ multithreading bugs
- Configured Linux servers and used various utilities for software development, test, and launch support

Honda Engineering N.A.
Marysville, OH

Associate Engineer, Electrical Design — *Sep. 2014 – Jan 2018*

- Worked on automation projects for robotic cells with multidisciplinary teams
- Gathered data for system specifications
- Implemented electrical hardware designs leveraging technologies such as AutoCAD Electrical to create system layouts, schematics and panel designs
- Designed and wrote software for both standard and safety PLCs
- Led system integration of equipment and ensured equipment performance during production

Morgan Engineering
Twinsburg, OH

Automation Engineer — *June 2012 – August 2014*

- Designed electrical systems including drawings in AutoCAD/AutoCAD Electrical, selection of components for electrical hardware and Programmable Logic Controllers
- Programmed Siemens and Rockwell PLCs and drives
- Commissioned Paper Handling / roller machines
- Programmed fully autonomous coil handling crane
- Worked on vision system using OpenCV and C++

EDUCATION

Arizona State University
Tempe, AZ

Master of Computer Science — *Dec 2020*

Technical Electives: Artificial Intelligence, Deep Learning, Applied Cryptography, Data Mining

The University of Akron
Akron, OH

Bachelor of Science in Electrical Engineering — *May 2012*

Mathematics Minor

Technical Electives: Analog and Digital Controls, Embedded Systems Interfacing, Active Circuits, Antenna Theory

TECHNICAL SKILLS

Languages: C++, C, Java, Python, SQL (Postgres), Bash, Perl, TCL, MATLAB, XML, LaTeX
Test Frameworks: JUnit, GoogleTest, PyTest
Libraries: pandas, NumPy, Matplotlib, PyTorch
Developer Tools: Git, Jira, Confluence, Docker/Podman, Kubernetes, Anaconda, cmake, gdb (debugging), Valgrind, Agile Development, SVN
IDEs: VS Code, PyCharm, IntelliJ, Eclipse, XCode, Vim
Industrial Automation: PLCs, RSLogix 5000, Siemens Step 7, TIA Portal, PCS7, Ladder Logic, Structured Text, Industrial Communication (ProfiNet, ProfiBus, Ethernet/IP, DeviceNet), AutoCAD
Engineering Equipment: Oscilloscope, Function Generator, Mutlimeter
General: Artificial Intelligence and Machine Learning, Data Structures and Algorithms, Linux, Technical Documentation, TDD, OOP / Design Patterns, CI/CD