Chesley Kraniak, Engineer

Software, Manufacturing, Quality, Aerospace

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About:

Talented problem-solver with 7 years of experience in aerospace manufacturing, industrial automation, software development, and inspection in an R&D environment. Skilled at taking unstructured problems and finding effective solutions with limited guidance.

Skills:

- C / C++
- C# / VB.Net
- Linux (Debian)
- GD&T
- Git
- Visual Studio
- CATIA v5, v6 + automation
- Python
- Azure DevOps
- Xunit, Moq
- Jira
- Agile

Experience:

2017 - Present, Senior Engineer, Manufacturing Innovation, Bell Textron

- Led architecture and development of system that automatically generates inspection programs able to execute on CMM and CNC machines, accounting for all part GD&T
  - Two patents pending
- Led architecture and development of system that evaluated engineering designs against configurable rules (coded in XML/Lua), determining conformity and generating audit data
- Engaged stakeholders to generate requirements and continuously monitored to ensure team remained aligned with stakeholders
- Led efforts to use modern software tools and methodology (Git, Azure, Xunit, SonarQube, peer review, etc.), co-led transition to Agile using JIRA
- Developed team talent through mentorship, pair programming, and one-on-one training

2014 - 2017, Engineer, Advanced Quality Systems Lab, Bell Helicopter

- Worked with teams of engineers and technicians to solve issues with development and production of aerospace parts using advanced 3D point cloud scanning systems, acquiring and delivering key information for decision makers
  - Automated white light scans using Fanuc industrial robots
- Automated analysis of multi-gigabyte white light / laser scan data using Python
- Developed concept for robotic manufacturing cell for machining rotor blade doublers

2013 Intern, Advanced Quality Systems Lab, Bell Helicopter

- Developed pre- and post-processors for Fanuc robot for offline programming of white light inspection and other operations using Python

Education:

B.S. (Hons), Aerospace Engineering, UT Arlington, 2014

- Secretary of AeroMavs aerospace competition team
  - Designed, built, tested, programmed, and deployed the control board for a competition-winning rocket-borne rover