Jason A. Reinhart

PROFESSIONAL EXPERIENCE

The MITRE Corporation McLean, VA
Lead Computer Scientist April 2014 – Present

Metrics Project Lead (Present)
- Leading the overall direction, technical quality, resource planning, and execution of aviation safety metrics
- Guiding a team of FAA, MITRE, and industry stakeholders in the development of commercial aviation safety metrics
- Enhancing current production metrics and visualizations to improve their accuracy, usefulness, and performance
- Utilizing a range of data visualization tools including Tableau, Python, and R to assist FAA and aviation industry decision making

Approach and Landing Accident Reduction (2014 – 2017)
- Worked with small team to research and develop a classification algorithm that successfully identified flights with elevated landing safety risk amongst a population of millions of flights
- Designed and implemented Tableau workbook to identify airports and runways with abnormal energy states
- Assisted with the development of Tableau workbook to visualize aircraft stopping effort on the runway
- Developed a model to capture the landing flare phase of flight
- Visualized metrics characterizing the landing flare

Airplane State Awareness - Flight Crew Performance Data (2015 – 2016)
- Collaborated with working group consisting of aircraft manufacturers, airlines, FAA, trade organizations, and research institutions to measure pilot response to flight deck alerting systems
- For the first time in aviation history, were able to close the loop between design and training of alerting systems and their use by flight crews in actual operations

Piedmont Airlines (US Airways Express) Salisbury, MD
First Officer: DHC-8 100 & 300 Series May 2011– Present
- Enhanced teamwork and CRM skills by cooperating with all crewmembers to complete flights safely and efficiently
- Operated complex aircraft in high stress and dynamic environments
- Maintained professionalism at all times to customers and fellow employees

JetBlue Airways, Inc. Forest Hills, NY
Flight Safety Co-Op May 2010 – May 2011
- Successfully worked within small team to increase average aircraft data collection rate by 20%
- Performed FOQA data analysis to support investigations, aircraft data requests, and provide trending data
- Performed literature reviews and statistical queries to support incident/accident investigation reports and analysis
- Authored articles published in quarterly safety department newsletter

TECHNOLOGIES AND LANGUAGES
- Most Experienced with Python, Tableau, and Microsoft Office
- Some Experience with R, SQL, GIT
- Actively learning JavaScript / D3

EDUCATION

Purdue University
Bachelor of Science in Aviation Technology
Focus: Professional Flight Technology, Minor in Business Management
GPA: 3.95/4.0
Graduated with Highest Distinction
Purdue University Presidential Scholarship Award
University Honors Program