Anthony Calandra

(586) 741-3147
Calandra1020@gmail.com

Objective

I am an experienced software engineer holding a master's degree in computer science who works in the military aircraft software domain. I am seeking to advance my career in software engineering, leveraging my diverse project experience as an engineer along with my knowledge gained from academia.

Skills

Languages: C++, Python, Java, SQL
Skills: git, IBM Doors, ClearCase, ClearQuest, ISO-26262, DO-178, Lean Six Sigma, AGILE, MATLAB tools, Radar, IMU, GPS, Ethernet, Training, Test Driven Development

Work Experience

Honeywell Aerospace, Clearwater, FL –*Software Engineer II*
June 2021– Present

- Delivered Ada and C++ software and documentation closing software change requests on time for multiple DO-178 projects
- Acted as git expert for 40-person business unit and trained a team of 15 engineers from novice to working proficiency.
- Acted as peer review lead for DO-178 artifacts and performed code and requirement inspections and updates.
- Lead ground up redesign of software tooling from Fortran to Python resulting in $5000+ in annual cost savings

Robert Bosch LLC, Plymouth, MI – *Associate Software Engineer*
January 2019 – June 2021

- Designed and implemented data transformation algorithms in software in the loop tooling
- Updated and developed platform software for radar-based rear cross traffic driver's assistance functionality
- Used IBM rational doors for requirements management
- Utilized Canape to analyze CAN signals for measurement simulation

Educational Experience

CSI – 5900 Data Science with Python – S&P 500 Stock Market Prediction Project
Summer 2020

- Created a stock market prediction software utilizing 5 years of historical S&P500 data, Python, Pandas, and Seaborn Libraries
- Handled dataset preprocessing including cleaning, encoding, and clustering of data for a 60,000+ row dataset Acted as peer
- Used a multiclass logistic regression model with an 80/20 Training Testing split of unnormalized data to predict the best days of the month and year to buy, sell, or pass on stock options

Oakland Robotics Association – Intelligent Ground Vehicle Competition (IGVC) – President
September 2016- September 2018

- Acted as Project manager for a ground up development of a competition robot utilizing Lidar, Stereo Camera and GPS
- Lead the software team, mentoring new members and creating tasks for Perception, Path planning, and behavioral software
- Developed Line finding software utilizing probabilistic Hough transforms and Robot Operating System

Publications

A Systematic Literature Review of Volumetric 3D Model Reconstruction Methodologies Using Generative Adversarial Networks." *Journal of Information Science and Engineering* 38.6 (2022): 1243-1263.

Education

Oakland University, Auburn Hills – *Master of Science in Computer Science - 3.38 GPA* *Dec 2021*
Oakland University, Auburn Hills – *Bachelor of Science in Computer Science - 3.28 GPA* *Dec 2018*