KRISHAN PATEL

+447377667438 | krishan7603@gmail.com
https://www.linkedin.com/in/krishan7601

EDUCATION

	Embry-Riddle Aeronautical University	**Daytona Beach, FL**
(May 2019)	**Master of Science, Software Engineering**	**GPA. 4.00**
May 2016	Bachelor of Science, Aerospace Engineering	GPA: 3.11
	Concentration: Air-Breathing Propulsion; Minor: Applied Mathematics	

RELEVANT WORK EXPERIENCE

2017　**GE Aviation - Avionics Software Placement Intern (12 mo.)**　　　　**Cheltenham, U.K.**
- Executed V-Model development process in an Agile manner while working on a data loading agent that could communicate through a specified protocol between a PC and engine controller hardware
- Enhanced existing avionic display units by using low-level C embedded software and ARINC communication labels to manipulate hardware and extend functionality
- Developed Java and DXL scripts that can be run on Jenkins to automate the extraction of requirements data from DOORS; which then could be collated into a user-friendly format such as an Excel spreadsheet or graphical model

2015　**Outdoor Robotics, Design Engineer (6 mo.)**　　　　**New Smyrna Beach, FL**
- Designed and printed 3D CAD components for existing and new modular drone designs used for surveillance, videography, and recreation
- Ensured reusable module-connecting interfaces to obtain an adaptable base design platform that can easily be remodelled and modified

2015　**Embry-Riddle Aeronautical University, Engineering Tutor (17 mo.)**　　　　**Daytona Beach, FL**
- Aided students in computer-based engineering software, Matlab, Java, and CATIA
- Tutored students of all coding abilities and focused on reusable scripts or functionality
- Troubleshot errors students faced in project and assignment codes whilst suggesting effective solutions

PROJECT EXPERIENCE

2018　**Clean Sky (GE Aviation), REACTOR**
- Worked as part of a team to develop a voice command system to be integrated in future cockpits as part of a European initiative to help reduce pilot workload
- Produced multiple audio-collection field agent systems that utilize software-defined radios and GE's Predix Platform, to collected data that could be used to help develop, train and test the project's speech-to-text system

2016　**Automated Requirement Traceability (ART)**
- Worked as part of a team to fully design and develop a traceability verification software (forwards and backwards) between a class diagram design and source code
- Executed SCRUM management techniques to ensure team efficiency and maximum product potential
- Designed the product as a Java Eclipse Plug-In with a friendly user interface, a video tutorial, fully documented user manual and installation instructions
- Enhanced product performance through use of multithreading and parallelism where effective

2015　**Aircraft Design and Simulation Analysis**
- Developed Matlab/Simulink FlightGear simulation of a Sig-Rascal 110 UAV by using control loops and continuous feedback systems
- Integrated DATCOM/AVL software to analyze longitudinal, lateral & directional derivatives to create look up tables, comparing flight performance at different altitudes & Mach numbers

SKILLS

Software Languages/ Tools	Java/C#, C/C++, Python, Matlab/Simulink, HTML/JS/CSS, Node.js, Vue.js, Docker, Jenkins, LDRA Testbed, Oracle VM VirtualBox, Raspberry Pi Development
Engineering Tools	CATIAv5, NASTRAN, AEDsys, GasTurb, Orbital STK10, IBM DOORS, IBM Rhapsody, IBM Rational Team Concert, GE Predix

LEADERSHIP POSITIONS AND ACTIVITIES

2013-2014	ERAU Dean's List
	Private Pilot License Holder (CAA and FAA)
2018	Contender - MAAXX Europe Drone Competition
2017-2018	Volunteer - GirlsGetSET
2015, 2014	President, Treasurer - Multicultural Greek Council
2015, 2013	President, Secretary - Sigma Beta Rho Fraternity Inc.
2016	Member - Order of Omega Honors Society
	Cadet Corporal - Combined Cadet Force (RAF Section)
	USPA Skydiving License Holder

References available upon request.