Suleyman Barthe-Sukhera
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Objective

Combine my passion for aerospace engineering, my professional experience in test validation, as well as my education in robust control systems in a dynamic and ambitious environment with a team that values a wholistic understanding of complex systems

Professional Experience

Embedded Software Application Tester, Ford Motor Company   03/2019 – 06/2021

Lead Application Tester:
  – Bi-Directional Charge Programming   09/20 – 06/21
  – Global Start Stop Charging   06/20 – 06/21
  – E.V. Charge Programming   06/19 – 06/21

Application Tester:
  – E.V. Charge Programming   03 – 06/19

Job Responsibilities:
  – Review and provide feedback on design specification documents, defect investigations, and future improvements
  – Define automation test plan goals and procedures, then design, document, code, execute, maintain, and report results for 300+ automated tests executed on both SIL and HIL systems
  – Identify and conduct root-cause analysis for defects on SIL, HIL integrated, and final product systems
  – Work in parallel with software and hardware development teams across local and global sites to resolve defects
  – Propose, design, and implement automation test software improvements and optimizations

Education

Grenoble INP - Ense³   2021-2022
  – Masters in Mobile Autonomous Robotic Systems

North Carolina State University (Cum Laude)   2013-2018
  – Bachelor of Science in Aerospace Engineering
  – Bachelor of Arts in French Language & Literature

Related courses: Vibrations, Controls, Robust Control of Mechatronic Systems, Aerospace Engineering (sub/super)-sonic, Systems Monitoring Diagnostics and Reliability, Mobile Robotics, Intro. to Autonomous Systems, A.I. and Autonomous Systems

Research, Past Projects, & Skills

Masters Research Project   Active
Identifying Optimal and Robust Precision Landing Maneuvers for Fixed-Wing VTOL UAV

Wildlife Aerial Observatory, study abroad, team of 14   08 - 10/2018
Built, modified, tested, and validated an autonomous fixed-wing UAV

Vertical Take-Off and Landing, team of 2   01 - 05/2017
Designed, built, and tested an experimental VTOL-UAV focusing on modularity, sustainability, and ease of use

Introduction to Autonomous Systems, team of 5   01 - 05/2017
Designed, built, and tested (SIL, HIL, flight) an autonomous book delivering quad copter

Aerospace and Mechanical Experience
Vibration and Controls Lab (electro-mechanical equivalent circuits)   01 – 05/2017
Sub & Super-Sonic Wind Tunnel Labs   2016 – 2018

Computer & Programming Skills
Python, MATLAB, XFOIL, AVL, SolidWorks, ANSYS, CAN bus, Google Protobuf, GitHub, Java, LabVIEW, C++, ArduPilot

Languages

Native Speaker: English and French