Tarik Haj-Khalil

Linkedin.com/in/tarikhajk | (213) 718-4418 | tarikhajk@outlook.com U.S. Person

EDUCATION

University of Washington – Seattle, WA

Master of Science - Aeronautics & Astronautics (Controls) - 3.9/4.0 Graduation: June 2019 Bachelor of Science - Aeronautics & Astronautics, Cum Laude - 3.7/4.0 Graduation: June 2016

SKILL HIGHLIGHTS

• C++ (proficient) Python Java

• MATLAB (proficient) • VBA Macros (proficient) • NX Unigraphics

• SolidWorks (proficient) Simulink • Git

AEROSPACE EXPERIENCE

Nonlinear Dynamics and Controls Lab – Seattle, WA

Graduate Researcher > Reconfiguring optic and sonic sensors onto an autonomous UAV using I2C and SPI communication

protocols running through **ROS** framework via C++ code.

The Boeing Company – Everett, WA

Summer - 2018

Cabin Systems IFE Intern

- > Supported the In-Flight Entertainment (IFE) tech center team by verifying that supplier products meet required electromagnetic and environmental requirements across all Boeing commercial fleets.
- > Performed weight and power analysis on a cutting-edge baseline IFE system for future Boeing programs.

UWashington Hyperloop – Seattle, WA

7 months - 2017

March 2016 – Present

Controls & Power Tech

- > Implemented ADC/DAC connections onto the Competition II pod computer using C++ and Python code.
- > Integrated battery cell balancing board into pod electronics to allow live battery health monitoring.

AeroTEC, Inc. – Seattle, WA

Summer - 2017

Avionics Systems Intern

- > Improved team efficiency by **automating data analysis** and Excel to **Visio** data transfer using **VBA** macros.
- > Supported system level **requirement verification** and **validation** as per ARP4754 guidelines.
- > Reduced **flight test vehicle** turnaround time by analyzing brake cooling trends and **publishing report.**

AIAA Capstone Project – Seattle, WA

8 months - 2016

Vehicle Integration Lead

- > Led the Configuration and Integration team to design a **supersonic** research UAV with enhanced subsonic handling and low-boom characteristics using NX Unigraphics (CAD) as per RFP specifications.
- > Partnered with **multidisciplinary engineering teams**, including mechanical, electronic, propulsion and software disciplines and combined ideas into a single vision.

AWARDS & LEADERSHIP

Awards: Roy & Irene Grossman Scholarship Award in Aeronautics & Astronautics **Leadership:** Boeing EAHI: College of Engineering Student Advisory Committee

UW Hyperloop; AIAA; UW Squash Club; Tau Beta Pi **Organizations:**