STEFAN LAYANTO

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EDUCATION

University of Washington - Computer Engineering, B.S.   Graduating in June 2021
GPA: 3.92 | Interdisciplinary Honors Program | Annual Dean's List 2017-2018

PROJECTS & HACKATHONS

November 2018 **FanScoup: Car-Sharing Service for fans of the Sacramento Kings**
· "Sponsored Prize Winner" in SacHacks 2018;
· IOS app with back-end algorithms to optimize pickup routes and car pools.

October 2018 **EmotiBoo: Non-Verbal Communication Aid for Socially Impaired**
· "Grand Prize Winner" & "Best Data Visualization" in DubHacks 2018;
· Created a modular web-app to detect a speaker's emotions from images;
· Communicates cues to user with graphic figures on Raspberry Pi wearable.

February 2018 **Smart Walking Stick**
· "Best in Show" in SRND's *CodeDay 2018*;
· Walking stick that detects obstacles & sends SOS texts with GPS coords.

October 2017 **EDrive: Driving Aid for the Deaf**
· "Best Transport-Related Hack" in MLH's *DubHacks 2017*;
· Used Arduino, Fourier Transform, & Clarifai API to detect sirens and horns;

December 2016- **Arduino RC Tricopter & Flight Controller**
September 2017 · Long-term self-initiated project that successfully achieved a hover;
· Coded own orientation computation algorithms from IMU sensor data;
· Integrated RC & PID control, tuning controller through various flight tests.

RELEVANT WORK EXPERIENCE

February 2018 - **Applied Physics Laboratory -** Student Research Assistant
Present · Tasked with software and electronics elements of actuating an underwater
  sensor testing platform using motor controllers and IMUs for feedback;
· Used Python scripting, BeagleBones (Controller), Solidworks, & 3D printing.

SKILLS & COURSEWORK

Skills   · Proficient in Java, Microsoft Excel, Arduino, 3D Printing;
· Familiar with Python, C, Linux OS, SolidWorks, Soldering, Machining;

Relevant   Software Design/Implementation(IP), Data Structures/Parallelism(IP),
Coursework   Hardware/Software Interface(IP), System & Software Tools.

LEADERSHIP

2017 - Present   *Payload Team Lead*, Society for Advanced Rocket Propulsion

2016 - 2017   *Lieutenant*, Military Instructor in Officer Cadet School, Singapore

2013 - 2014   *Student Council Vice President*, Indonesia

INVOLVEMENTS

2017 - 2018   *Controls Team*, UW Human Powered Submarine Club

2017 - 2018   *Mechanical Team*, Advanced Robotics at UW