

STEFAN LAYANTO

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EDUCATION

University of Washington - Computer Engineering, B.S. Graduating in June 2021
GPA: 3.87 | Interdisciplinary Honors Program | Annual Dean's List 2017-2018

PROJECTS & HACKATHONS

- December 2018- **Tempo: Apple Smartwatch Running App**
Present
 - Fitness app tracking heart rate/pace eliminating need to look at screen;
 - Developed concept, formed team, and coordinating ongoing development.
- 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.
- 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.
- November 2018 **Sponsored Prize Winner** – MLH's *SacHacks 2018*: "FanScoup"
February 2018 **Best in Show** - SRND's *CodeDay 2018*: "Smart Walking Stick"

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, HTML, CSS, JS, LinuxOS, SolidWorks, Soldering;
- Relevant Coursework
 - Software Design/Implementation(IP), Data Structures/Parallelism(IP), Hardware/Software Interface(IP), System & Software Tools, Rapid Prototyping.

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 – Present *University of Washington Rugby Club*, Starting Full-back/Winger
- 2017 - 2018 *Mechanical Team*, Advanced Robotics at UW

