mmaleno@hmc.edu **Maxwell Maleno** +1 (516) 302-5519
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Education:

Harvey Mudd College – Claremont, CA – 3.5 Engineering GPA, May 2020 Graduation
- Microprocessors, Analog Electronics, Experimental Engr, Comm Systems, Adv. Systems Engr

Skills:

Languages: C/C++, Python, Linux, MATLAB, Verilog, Java, Mathematica, Arduino, R, HTML5 & CSS
Software: Code Composer, Altium, LTspice, Eclipse, LabView, SolidWorks, Quartus Prime, ModelSim
Tools: Logic Analyzer, Oscilloscope, Multimeter, Surface-mount station, Machine shop equipment

Work Experience:

Embedded Systems Intern, *Tyvak Nano-Satellite Systems*, Irvine, CA Jun 2018 – Aug 2018
- Developed microcontroller driver for power monitor I^2C IC (C++)
- Designed 14 IC breakout modules for CubeSat regression testing
- Created schematic validation tool to expedite FPGA approval process (Python)

Leadership Experience:

Treasurer, *Associated Students of Harvey Mudd College*, Claremont, CA Apr 2018 – Present
- Manage annual budget of $300,000
- Automated bookkeeping processes by writing Python scripts
- Organized shared governance petition which 520 (62%) students signed

Machine Shop Proctor, *Harvey Mudd College Machine Shop*, Claremont, CA Dec 2017 – Present
- Oversee student usage of collegiate machine shop
- Teach students proper machining techniques

Projects:

Autonomous Campus Robot – Grant-Funded Project Dec 2018 – Present
- Project lead on semester-long project to build vehicle platform
- Localization team manager (RTK GPS)
- Autonomous vehicle will function as student shuttle / delivery robot

Indoor Localization – Academic Project Sept 2018 – Dec 2018
- Finished year-long deliverables in less than 1 semester
- Project for construction vehicle company
- System to localize vehicle in warehouse
- Team lead on acoustic technologies

LEXI Tracker – Personal Project May 2018 – Aug 2018
- GPS tracker to visualize dog location in real time
- Dog's collar hosts webpage on local Wi-Fi network
- Kitchen device reads telemetry from webpage
- Data & location outputted via GUI on 7 inch display

Autonomous Surface Vehicle – Academic Project Mar 2018 – May 2018
- Unmanned autonomous water vehicle
- Navigates to a remote 433 MHz beacon
- Designed SPI bit-banging script to read RF strength from IC