

Paul Sammut

ROBOTICS ENGINEER

706 Washington St. Hoboken, NJ, 07030

☎ 646-421-5751 | ✉ paul.c.sammut@gmail.com | 🌐 www.paulsammut.com | 📷 paulsammut | 📺 paul-sammut

Summary

Paul is a robotics engineer that has worked on underwater rockets, has started a consumer product hardware company and a robotics consulting company making marine research robots. He was born with a passion for anything with wires, software, and moving parts. He has over a decade of experience building many combinations of those three things. These projects have taken him on a never-ending learning journey spanning designing ROS autonomous systems, real-time control, embedded electronics, mechatronics, and software/hardware project management.

Education

Stevens Institute of Technology

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING (AEROSPACE CONCENTRATION)

Hoboken, NJ

May, 2009

Stevens Institute of Technology

MASTER OF ENGINEERING IN MECHANICAL ENGINEERING (ROBOTICS CONCENTRATION)

Hoboken, NJ

May, 2014

Work Experience

Stocker Freight

FOUNDER

New York, NY

2017 - 2018

- Raised FF seed round and founded Stocker, dedicated to creating an autonomous freight service for cities.
- Built a tech-demo street robot name Primo using ROS capable of operating autonomously in the street.
- Integrated multiple stereo cams, mono cams, IMU and other sensors to provide odometry fused with an EKF.
- Integrated RTAB-Map RGBD slam to create maps and localize within them.

Robotics Consulting | Rockefeller University

ROBOTICS ENGINEER

New York, NY

2016 - 2017

- Acquired, managed and executed a robotics contract to create an autonomous catamaran for dolphin vocalization research.
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Ramos Alarm Clock | Sammut Tech LLC

FOUNDER

Hoboken, NJ

2012 - 2016

- Invented a novel alarm clock that forced users up by use of a remote keypad.
- Created a successful Kickstarter and pre-order campaign raising \$200K in pre-orders.
- Setup a factory in New Jersey, managed 2 engineers and labor hires to manufacture product.
- Managed capital acquisitions, supply chain, manufacturing plans, inventory forecast schedules, and product strategy.

Davidson Lab | Stevens Institute of Technology

SENIOR RESEARCH ENGINEER

Hoboken, NJ

2009 - Present

- Managed new technology projects from the specification phase to testing and validation.
- Conducted fundamental physics research on High Speed Supercavitating Vehicles (underwater rockets).
- Created instrumentation and control apparatus utilizing various sensors, pneumatic systems, still and video photography systems interfaced to separate RTOS and standard computers on a custom distributed network.
- Operated, maintained, and upgraded a fleet of UUVs operating in the Hudson River.
- Created HIL testing apparatus utilizing mathematical models to validate system performance.
- Designed electronic wiring systems for power, analog and digital comms and connector solutions.
- Wrote and supported mission critical launch control software for rocket systems.
- Designed and managed the creation of a control surface subsystem with humming bird level dynamic response.

- Machined parts based on provided drawings and learned fundamental concepts of Design For Manufacture

Publications

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| 2012 | Planing-Hull Forces and Moments on a Cylindrical Body in a Cavity , CAV2012 | <i>Singapore</i> |
| 2010 | Remote Control and Monitoring of MOOS Vehicles through Cellular Modems , MIT MOOS-DAWG | <i>Cambridge, MA</i> |
| 2010 | Guidance of a UUV Using a Passive Acoustic Threat Detection System , IEEE, WSS | <i>Carrara, Italy</i> |

Skills

Software	C, C++, Python, ROS, OpenCV, Real Time Programming, Linux, CMake, Vim Enthusiast, VCS (Git, SVN), Mixed Signal DAQ Programming, LabVIEW, LabVIEW RT, LabVIEW FPGA, cRIO
Hardware	PCB Layout (Altium, Eagle), MPLAB IDE, Logic Analyzers, ICE Debuggers, Digital-comms (CAN, Serial, I ² C, SPI), RF SoCs, uProcs, Power Circuits, Sensors (LiDARs, GNSS, IMUs, AHRS, 2D Cameras, Stereo Cameras, RGBD Cameras), HIL Testing
Mechanical	Solidworks (16 years exp.), Fusion 360, Complex Tolerance Stacks, Underwater Systems, Precision Actuation Design (Ball screws, Linear Rails), Materials and Coatings
Personal	US Security Clearance, USA and Maltese Citizen, Avid Rockclimber