# Paul Lassen

https://paullassen.com | https://github.com/paullassen

San Francisco, CA, USA | (415) 676-0809 | lassenpaul@gmail.com

## Skills

C, C++, Java, Python, Matlab, Simulink, TCL, VHDL, Linux, kernel drivers, FPGA programming,
Control system design, System Modelling, ROS, Raspberry Pi, Beagleboard, PID, Machine Learning
Languages: English (Native), Danish (Fluent), German (B2)

## Experience

**09/2015-01/2016**  **R&D Hardware Intern at Siemens A/S Flow Instruments**, Sonderborg, Denmark
*Developer and manufacturer of flow meter solutions for industry.*

- Developed TCL scripts for production tests
- Developed, documented and executed acceptance tests on low level modules
- Documented and tested development samples
- Researched and prototyped possible wireless technologies for future use

## Education

**09/2018-05/2021**  **Electrical Engineering at Technical University of Denmark**, Copenhagen, Denmark
*Masters of Science in Electrical Engineering, M.Sc.Eng.*
Thesis: **Modelling and Control of an Aerial Manipulator**

Courses: Digital Control, Robust and Fault Tolerant Control, Building Dependable Robot
Systems, Autonomous Robot Systems, Advanced Autonomous Robots, Linear Control Design,
Software Frameworks for Autonomous Systems, Hardtech Entrepreneurship, Introduction to
Machine Learning and Data Mining

**08/2017-06/2018**  **Neuroscience and Neuroimaging at Univeristy of Chinese Academy of Sciences**
Beijing, China

Completed Master's Courses: Fundamental Biomedical Signal Processing, Basic
Neuroscience, Pattern Recognition and Predictive Modelling, Magnetic Resonance Imaging,
Magnetoencephalography and Electroencephalography, Neurotransmission Neuropsychology and
Psychiatry

**08/2013-02/2017**  **Electrical Engineering at Aarhus School of Engineering, Aarhus University**
Aarhus, Denmark
*Bachelor of Science in Electrical Engineering, B.Sc.*
Final Project: **Multi-node time-synchronized EEG data transmission over WiFi**
Course Overview: Analog and Digital Signal Processing, Microcontroller Systems, Control and
Automation, Autonomous Mobile Robots, Interdisciplinary Robot Project

## Events

**05/2019**  **DTU RoboCup 2019**, Copenhagen, Denmark
*Autonomous navigation of an obstacle course*
Awards: **Second Place**, **Best Student Vehicle**

**06/2018**  **AngelHack Hackathon 2018**, Beijing, China
*URL link previewer as a Chrome Browser AddOn*

**07/2017**  **DeepLearn 2017**, Bilbao, Spain
*International Summer School on Deep Learning*

## Papers

**05/2021**  **Modelling and Control of an Aerial Manipulator**
*M.Sc.Eng Thesis*

**07/2021**  **Can your drone touch? Exploring the boundaries of consumer-grade multirotors for physical interaction.**
*AIRPHARO 2021 Workshop on Aerial Robotic Systems Physically Interacting with the Environment - Accepted*