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