

Sami Deiri

The problem with turning my hobby into my career is I can't seem to figure out what's just me having fun, and what's professional development. At this point I just try my best to maintain the **illusion** of a work life balance.

EXPERIENCE

SAGA Robotics — Robotics Engineer

JULY 2020 - PRESENT

Project Lead for Bacchus Project EU. **Full Stack Robotics Engineer.** Developing and implementing **mechanical, electronic and software solutions** for agri-tech with a focus on mobile robotics.

Roles and interest topics within projects inc.: **Mechatronics and Software lead**, ROS, Rapid Prototyping, Autonomous Navigation, Localisation, ML, Pointclouds, Yield estimation, Control systems, Sensors, Networking.

Ultima Forma — Robotics Developer

July 2019 - December 2019

Automated a manufacturing process. **End to end control** over the project **design, development and implementation** in both hardware and software. Utilized UR5 robot arms with custom jigs, relays and safety routines.

Freelance Product Designer and Robotics Consultant

2018 - 2020

Automation processes, market research, **feasibility studies**, **CAD design**, **product development** for static consumer facing products.

EDUCATION

Queen Mary, University of London — First Class with Honors, Robotics Engineering, Masters of Engineering

September 2016 - June 2020

PROJECTS - Academic

Design and Control of a Robot Hand With Soft Tactile Skin

Design and control implementation of a 3D printed robot hand.

Tasks included: **Rapid design and prototyping**, closed loop **position control**, development of extrinsic soft 3d tactile sensors. Development of a **ROS package** for simulation and control.

Mammal Inspired Legged Soft Robot: Design and Control

Design and control of novel soft mobile robot design. Developed novel fabric actuators, models to predict the behavior and a control system.

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SKILLS

Python, C++, C, Java
Javascript, HTML

Fusion 360, Solidworks,
Inventor, KiCAD, Blender

FDM, SLA, various CNC,
Machining, low quantity
rapid prototyping.

AWARDS

Winner of Best MENG Project Award at QMUL for my project on the design and control of a robot hand with soft tactile skin.

Try it Enterprise Award 2019 for my start-up project designing low cost robot arms for use in consumer facing robots. Primary focus on hospitality, entertainment, and advertising.

LANGUAGES

Fluent - English, Arabic
Intermediate - French,
Spanish