

Yoel Sarp Kastro Morlevi

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EXPERIENCE

CREATE-4 | DEPLOYMENT ENGINEERING INTERN

March 2023 – August 2023 | Blackpool, UK

- Troubleshoot hardware and software for newly developed vape vending machine.
- Fix all problems to make sure all vending machines are deployment and commercial use ready.
- Interface with client to coordinate instalment and status of vending machines.
- Install and test all vending machines on-site at various locations.

XCAVATE ROBOTICS | ROBOTICS ENGINEERING INTERN

May 2021 – July 2021 | London, UK

- Design and build scalable software and circuit for autonomous excavation robot.
- Implement a user interface to communicate with excavation robot based on SPI.
- Implement precise motor control mechanisms using encoders.
- Reverse-engineer off-the-shelf electronics to implement and integrate into product.

IDESSE | COMPUTER VISION INTERN

June 2019 – August 2019 | Istanbul, Turkey

- Create and train machine learning system recognize and count pharmaceutical items.

PROJECTS

FABRIC KEYBOARD | MIDI PIANO MADE OUT OF FABRIC

May 2021 – January 2022

[Github Link](#)

- Design and build circuit for MIDI piano using nRF52840 microcontroller, LiPO charging and capacitive touch sensing.
- Program MIDI protocols for use over microUSB and BLE for wireless function.
- Integrate into existing MIDI instrument ecosystems.

IMAGE REGISTRATION PROJECT | IMAGE REGISTRATION FOR

USE IN IDENTIFYING CANCER TISSUE

September 2023 – June 2023

[Github Link](#)

[Report Link](#)

- Develop a program for applying non-linear transformations to whole-slide images, as a university project.
- Adapt an algorithm to detect keypoints and generate non-trivial non-linear transformations to match images.
- Design a method to apply non-linear transformations to parts of images and combine them for the full image.

EDUCATION

UNIVERSITY OF WARWICK

BACHELOR OF SCIENCE IN

COMPUTER SCIENCE WITH HONORS

January 2025 | Coventry, UK

SKILLS

PROGRAMMING

3+ years:

Python • C/C++

Java • Javascript

1+ years:

PHP • HTML/CSS

Haskell • C#

0+ years:

Matlab

TECHNOLOGY

Git/Github • AWS • Linux

UNIX • Windows

Artificial Intelligence • Automation

Microcontrollers • Raspberry Pi

Microsoft / Google Office • CAD

OTHER WORK

Swiss Sports Hackdays Hackathon

Participant, 2024

University of Warwick Robotics Society

President, 2023-24

Unibots UK inter-university robotics

competition 3rd place, 2021

Speaker at PyCon UK, 2018/2019

Co-organizer of Pi Wars Turkey, 2019

AP Scholar with Honors, 2019

Teknofest Robotic Conquest Competitor,
2018/19

**Pi Wars Cambridge Competitor,
2018/19**

Teknofest UAV Competitor, 2018,

Hisar CS Coding Summit Programming

Instructor, 2017-2020

Member of NoktaParantez First Robotics
Competition Team, 2016-2018

LINKS

Github: [yoelkastro](#)

LinkedIn: [yoel-kastro-morlevi](#)

Website: [yoelkastro.me](#)