

SAAD YOUSUF

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Saad Yousuf

SYanon

EDUCATION

Middle East Technical University-Honor Student

2018 – Summer 2023

Bachelor of Science in Computer Engineering - **CGPA - 3.25**

Ankara, Turkey

Foundation Public School-Valedictorian

Aug 2016–Aug 2018

Cambridge GCE A Levels - Math, Phys, Chem, Bio, English- **Grades - 4 A*, 1 B**

Karachi, Pakistan

WORK EXPERIENCE

METU Kovan SWARM Robotics Lab | ROS/Python/C++

Aug 2021 – current

- Optimized and advanced an existing ROS(Robot Operating System) based multi-drone management system
- PyQt- Pixhawk, 3d printing parts design, RC controllers, ArduPilot, Gazebo and Unreal Engine for Drone Visualisation

Arçelik Embedded Electronics Division | Verilog/OpenCV

July 2021

- Fresh Start Internship Program-part of a selected few students for this prestigious program
- Optimized and advanced an existing People counting mechanism for CCTV cameras using OpenCV frameworks
- Designed apps with Google ad-services with focus on Arçelik

ODTÜ-VENT | Python/Arduino/Mechanical Components and Control

Feb 2020 – Sept 2020

- ODTÜ's first engineering team based on providing Ventilator solutions for the COVID-19 pandemic
- Started an Emergency Ventilator as well as a Commercialized Ventilator Project along with a team of Mechanical Engineering graduates
- Also part of the marketing team, handling the public website and Github repositories, giving pitches to potential sponsors and companies

Sparse Technologies | Qt/Docker/PIC/PLC/PCB

July 2020 – Sept 2020

- An ODTÜ Technopark company based on creating embedded systems while also serving as an active software house
- Optimized and advanced an existing commercial BVM(bag valve mask) based ventilator
- Involved in PCB schematics, PLC, Raspberry Pi 4, stepper motor as well as commercial analogue Pressure and Flow Sensors
- Learnt to efficiently follow DevOps Procedures and create Docker Packages for ventilator software's core code, employing Qt GUI, Jenkins, and C++

CYBERNET Technologies LTD | Network Protocols

July 2019

- Well versed with Network troubleshooting & Windows Cli Networking commands
- Familiar with corporate management tiers, meetings & work ethic

RELEVANT RESEARCH

ITM WORKFLOW for handling sc-RNA sequencing isoform analysis

Aug 2020 – June 2021

Submitted as part of CENG 488 Course: Undergraduate Research (June 2021)

- Supervised by Prof. Tolga Can from Dept. of Comp.Engineering to carry out **single cell RNA sequencing analysis as part of Bioinformatics(article available on Github)**.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, SQL, R, OpenCV, PyTorch for ML, Dartr-Android Apps

Developer Tools: VS Code, Android Studio, IntelliJ Idea

Tech: Linux, GitHub, Git, Flutter

EXTRACURRICULARS

- MULTILINGUIST: Native English and Urdu Speaker, as well up to A2 Turkish and A1 German fluency, with an overall IELTS Band 8.
- COFOUNDER of YabanCCs, the existing METU's Turkish Computer Club's International Wing, Ankara
- VICE PRESIDENT METU International Students Association, Ankara, Academic Year 2018-2019
- FOUNDER & PRESIDENT OF THE PUBLIC SPEAKING SOCIETY-Member of the Student Leadership Council, Foundation Public School, Karachi 2017