

# SAAD YOUSUF

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Saad Yousuf

SYanon

## EDUCATION

### Koç University-Student

October 2024 – continued

*Masters of Science in Electrical and Electronics Engineering(thesis)*

Istanbul

### Middle East Technical University

June 2023

*Bachelor of Science in Computer Engineering - CGPA - 3.42*

Ankara

## WORK EXPERIENCE

### Specialist at Beko Global R&D, Istanbul | Embedded/RTOS/Cypress/Renesas MCUs Oct 2023–contd

- \* Added new components like a custom pressure sensor into washing machine(WM)'s main boards employing communication protocols such as I2C and UART
- \* Learnt analyses of electronics' schematics as well as company's custom RTOS variation used in all of its white goods.
- \* Responsible for assessing improving code bases to pass IEC safety standards. The repos' respective Beko WM models are then be accepted for importing into previously untapped markets. Crucial certifying organizations like VDE/UL judge my work.
- \* Achieved Beko's first approval from VDE in 18 years, allowing our machines into European markets.

### NanoDems Mobile App Developer, Ankara | React Native/Flutter/Firebase Oct 2022 – June 2023

- \* Worked on full-stack React Native android project involving ML object recognition of road pitholes, user authentication database alongside a backend at Firebase
- \* Final year project for METU CENG graduation

### Arçelik IoT Division METU Teknokent, Ankara | React/Swift/JS/AWS

July 2022 – Sept 2022

- \* Working on existing full-stack web projects involving React along with AWS Lambda, DynamoDB & API Gateway at the backend
- \* Also looking into iOS applications for HomeWhiz, the company's home appliance management system on the cloud

### METU Kovan SWARM Robotics Lab, Ankara | ROS/Python/C++

Aug 2021 – May 2022

- \* Optimized and advanced an existing ROS(Robot Operating System) based multi-drone management system
- \* A\* & RRT Algorithms, Drone Simulation/Aggregation/Movements, PyQt- Pixhawk, 3d printing parts design, RC controllers, ArduPilot, Gazebo and Unreal Engine for Drone Visualisation

### Arçelik Embedded Electronics Division, Ankara | 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

### METU-VENT | Python/Arduino/Mechanical Components and Control

Feb 2020 – Sept 2020

- \* METU'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

## 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, React-Native Apps

**Developer Tools:** VS Code, Android Studio, IntelliJ Idea

**Tech:**Agile/SCRUM framework adoption, Linux OS, GitHub, Git, Flutter

## EXTRACURRICULARS

- Native English and Urdu Speaker, as well up to A2 Turkish, with an overall IELTS 2020 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