

Veysi ADIN

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EDUCATION

University of Science and Technology

Korea Institute of Science and Technology

HCI & Robotics / Master

Seoul, South Korea

Currently Studying~06.21.2022*

- 4.34/4.5, Research Assistant in Center for Healthcare Robotics
- Implementation of Control Framework for Spine Surgery Robot
- Implementation of Real-time EtherCAT master
- Implementation of control Software with GUI for Microdebrider Project
- Verification and validation of medical device software

Mersin University

Electrical & Electronics Engineering / Bachelor

Mersin, Turkey

05.24.2019

- 3.67 / 4, Faculty of Engineering Valedictorian
- IoT Based Natural Gas Valve Switch Application as a diploma project. We implemented Android application to control natural gas valve, using ESP32 as microcontroller and Firebase as a backend of our application.

WORK EXPERIENCE

Korea Institute of Science and Technology

Research Assistant

Seoul, South Korea

01.09.2020-Present

- I worked on development of control framework for medical robots, using EtherCAT protocol based on CiA402 standard and ROS2 as a middleware running on real-time Linux. As a use case for this control framework, we tested our framework on spine surgery robot being developed in our Healthcare Robotics Center.
- Designed several PCB's including safety watchdog PCB, and flexible PCB for measuring force on tip of attached instrument to spine surgery robot.
- Worked on safety and verification of medical robot and medical robot software complying several standards, including IEC62304, IEC60601-1/2, ISO 13485. We showed that our work is suitable for industrial applications.

Korea Institute of Science and Technology

Research Intern

Seoul, South Korea

01.06.2020-08.31.2020

- Worked with medical startup company and implemented control software for Microdebrider device used in endoscopic sinus surgeries using C++, Qt, and CAN protocol.
- Designed initial prototype case for the product using SOLIDWORKS.

LEADERSHIP EXPERIENCE

Daewoong Foundation Hackathon

Team Captain

Seoul, South Korea

10.05.2021-12.05.2021

- We joined Daewoong Foundation Hackathon, where we try to implement our ideas related to AI, Big Data and medical applications. We joined in the hackathon with our project called "AI Based Diagnosis Assistant" which is an application running on web.
- I was the captain of the team, managed team members consisting of four people. Team members worked on developing AI models for diagnosis and I worked on full integration of those models to our desired system.
- I implemented web-application using HTML/CSS/JavaScript, Firebase and ONNX framework.

IEEE Student Community

Social Media Coordinator

Mersin, Turkey

01.01.2017-24.05.2019

- Organized social events, courses and technical trips for community members, managed social media and webpage of community.

SKILLS & INTERESTS

Skills: C++, C, Python, Qt, ROS/ROS2, Git, PCB Design, Altium Designer/KiCAD/EasyEDA, Embedded Systems, CiA402, IEC62304, ISO13485 standards, EtherCAT, CAN, UART, SPI, I2C communication protocols, STM32 microcontrollers.

Languages: English (Advanced), Kurdish (Native), Turkish (Native), Korean (Intermediate)

Interests: Hiking, Football, Basketball, Cooking, Opera, Hobby Electronics, 3D printing.