Amir Mohammadi

Mechatronics student

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Github: https://github.com/kevicrypt
Blog: https://kevi-daily-blog.vercel.app
Online CV: https://kevicrypt.github.io/myCV

EDUCATION

Mechatronics (M.Sc)

FAU Erlangen-Nürnberg

10/2022 – Current

GPA: 1.8 (German grading system)

Mechanical engineering (B.Sc)

University of Tehran

08/2015 – 09/2019

Thesis: Regulating the pressure in a hydraulic circuit using nozzle flapper method
GPA: 16.44/20

EXPERIENCE

11/2019 – 08/2022
3 years

Mechanical engineer | Tarang Co. (Road Construction)
Responsible for measurement and analysis of projects
CAD-Design of mechatronic components used in projects

05/2018 – 08/2018
3 months

Intern | Electric Khodro Company (EKS)
Intern in the Research and Development area
Working with digital signal processing (DSP) devices

09/2018 – 12/2018
3 months

Teacher assistant | Design of Machine Elements
Assist the course instructor in preparing and delivering exercise sessions
Provide individualized assistance to students

04/2023 – current

Teacher assistant | MATLAB Laboratory
Support the instructor in the preparation and delivery of MATLAB lab sessions

09/2023 – current

Working student | IAV GmbH
Develop Matlab applications for test and measurement
Model automotive-related designs using Simulink

PROJECTS

Developing an elderly falls scenario information app
Python is used as main language of the application
The data is collected by a Gyroscope using a smartphone The algorithm is trained using PyTorch

Pressure control via nozzle flapper geometry
Matlab Simulink is used for simulating the Regulator
The main method is nozzle flapper mechanism

08/2023 – 11/2023
Product development of 3D-MID
Develop a c++ framework for automating the implementation of
mechatronic integrated devices CAD files

04/2024 – current
Gaze tracking in VR
Develop an environment for VR in Unity
Collect gaze data using a VR headset
Integrate eye and motion tracking data from the VR task

Programming languages
Python / C++ / MATLAB / JavaScript
Design
Unity / Siemens NX
Robotics and Machine Learning
Arduino / Numpy / Pandas / ROS
Simulink
Web development
Html, Css, NextJS, NodeJs,
Express, MongoDB, SQL

Languages
Persian: Native
English: C1 (TOEFL 98)
German: C1 (TestDaF 19)
Spanish: A1

References
Dr. Kambiz Ghaemi Osgouie
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