S.M.H. Hosseiny

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EDUCATION

University of Tehran   Tehran, Iran
B.Sc. in Electrical and Computer Engineering, GPA: 3.6 (17.16/20)   2016–2020
  – Thesis: "3D Reconstruction of Dome from a Single Image"

EXPERIENCE

Research Assistant at NBIC   Tehran, Iran
Implementing a data-driven framework for Fiber Tractography   2020 - 2021
  – Implementing a Convolutional model to estimate fODF from MRI data
  – Introducing an automatic end-to-end Tractography pipeline

Research Intern at Donya Houshmand Ayandeh (DAHA)   Tehran, Iran
Developing a Wireless Indoor Positioning System(IPS) using Bluetooth Low Energy Antennas   Summer 2019
  – Installation and setting up BLE antennas
  – Implementing Kalman filter and KNN algorithm
  – Implementing Real Time Locating System

TEACHING

- **Student Teaching Assistant** at University of Tehran   Fall 2019
  Engineering Mathematics

- **Student Teaching Assistant** at University of Tehran   Fall 2020
  Industrial Control

- **Student Teaching Assistant** at University of Tehran   Fall 2020
  Linear Control System

SKILLS

- **Programming:** Python, Matlab, C/C++
- **M. Learning:** TensorFlow, Google Colab
- **Tools/Techs:** LaTeX, Ubuntu
- **Hardware/System Design:** AVR & ARM, Proteus, Simulink, Altuim Designer, PSpice

LANGUAGES

- **English:** Proficient - TOEFL iBT score: 108/120
- **Persian:** Native language

PROJECTS

- **Voice Gender Classification**
  Pattern Recognition (Python, 2020)

- **Route Optimization**
  Operational Research (Python, 2019)

- **Movie Server**
  Advanced Programming (C++, 2019)

- **Text Generator**
  Neural Network (Python, 2020)

- **Super Mario Game**
  Advanced Programming (C++, 2019)

- **Survey of Feature Selection Algorithms**
  Pattern Recognition (Python, 2020)

- **Decision Tree Classifier**
  Intelligent Systems (Python, 2019)

- **Liquid Level Control in Three Tank System**
  Linear Control Systems (Matlab, 2018)

REFRENCE

- **Prof. Reshad Hosseini**   Berlin, Germany
  Assistant Professor at Electrical and Computer Engineering School, University of Tehran Director of Computational Audio-Vision Laboratory

- **Prof. Mehdi Tale Masouleh**   Qubec, Canada
  Associate Professor at Electrical and Computer Engineering School, University of Tehran Director of Intelligent Networks Laboratory

- **Prof. Ahmad Kalhor**   Tehran, Iran
  Associate Professor at Electrical and Computer Engineering School, University of Tehran

- **Prof. Fariba Bahrami BoodeLalou**   Tehran, Iran
  Associate Professor at Electrical and Computer Engineering School, University of Tehran Director of Human Motor Control and Computational Neuroscience Laboratory

- **Prof. M. Nazem-Zadeh**   Tehran, Iran
  Assistant Professor at Tehran University of Medical Science, Member of Advanced Medical Technologies and Equipment Institute