Mohammad Hassan Mojab

Curriculum Vitae

EDUCATION

- **Bachelor of Science** 2014–2019
  Amirkabir University of Technology *Tehran-Iran*
  - Major: Electrical Engineering (Electronics) GPA: 17.49/20 via 140 credits
  - Minor: Computer Engineering (Software) GPA: 16.04/20 via 18 credits

TOP COURSES

- Computer Programming 20
- Advanced Programming 19.64
- Internet Engineering 20
- Logical Circuits 18.7
- Computer Architecture & Microprocessors 19.6
- Microprocessor Systems & Interfaces 18.5
- Linear Control Systems 18.24
- Probability & Statistics 17.5
- Engineering Mathematics 19
- Electric Circuits 20
- Electronics II 19
- Technical English 18.5

RESEARCH INTERESTS

- Internet of Things
- Large scale Machine Learning & Big Data
- Data Mining
- Deep Learning
- Natural Language Processing
- Semantic Web

LANGUAGE SKILLS

- English Advanced (reading, writing, listening); Intermediate (speaking)

COMPUTER SKILLS

Languages

- Python
- JavaScript
- Java
- C++
- PHP
- SQL
- Bash
- LaTeX

Technical Tools

- Matlab (+Simulink)
- Git
- Docker

Frameworks

- React Native
- React
- Redux

Platforms

- ThingsBoard
- Kubernetes
- OpenWhisk

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EXPERIENCE

- **Front-End & Mobile Application Developer** Oct 2017–Present
  Andishe Fartak Amirkabir (Atrovan) *Tehran-Iran*

  Developing Android & iOS & web applications for:
  - Home automation (Smart Home)
  - Electricity power analyzer (*EcoSense*)
  - Fleet managing systems (Fleetak)
- **Mobile Application Developer** Sep 2018–Jan 2019
  Tosee Pardazan Andishe Gostar (Shams) *Tehran-Iran*
  - Developing Android & iOS application for two-sided metal market platform.
- **Programmer** Sep 2016–Oct 2017
  Control of Multi Vehicle Systems Laboratory *Tehran-Iran*
  - Programming AVR micro-controllers and Raspberry Pi micro-computer.
  - Machine Vision.
  - Developing user interface and designing a controller.

B.Sc. THESIS

- **Serverless IoT platform**
- Designing and implementing a serverless IoT platform using **OpenWhisk** & **Kubernetes**.
- Deployment of MQTT message broker and simulate IoT devices to send data.
- Implementing RESTful APIs to store & retrieve timeseries data of IoT devices.
- Developing a mobile application for timeseries data virtualization.
  - Supervisor: Dr. Taheri [Spring 2019]

INTERNSHIP

- **Monitoring and tracking objects for rehabilitation and security uses.**
- Developing and designing two cross-platform mobile applications using **React Native** and **Redux** frameworks.
- Developing a back-end server for mobile applications using **PHP** and **MySQL**.
  - Supervisor: Dr. Sharifian [Summer 2017]

ACADEMIC PROJECTS

- **Holographic Scanner**. The project includes a GUI created by **pyQt** and two sharp distance sensors attached to a soccer robot to make a **Holographic** scan of the environment by rotation of the robot and then send data over the serial port to the computer. After processing the received data, a 3D Real-time plot of the scanned environment is displayed in the **GUI**.
  - Supervisor: Dr. Jahanshahi [Spring 2016]

- **Semi-Autonomous UGV control with Intuitive Interface**. UGV navigation using an image processing library called **ArUco**, Controlling UGV using control systems implemented in **Simulink** and Connecting UGV to the server using **NRF** & **UDP** protocols.
  - Supervisor: Dr. Abdollahi [Winter 2016]

- **Online Food Ordering Website**. Developing and designing an online food ordering website by the use of **HTML**, **CSS**, and **JavaScript** for front-end and **PHP** and **MySQL** for the back-end of the website.
  - Supervisor: Dr. Bakhshi [Spring 2017]

- **Speaker Recognition**. Designing a Speaker Recognition System using **Multi-Layer Perceptron Neural Network** and **Back Propagation** algorithm for training coded in **MATLAB** with GUI.
  - Supervisor: Dr. Abdollahi [Spring 2018]

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