

# Faraz Atarodi

Janseniusstraat 38, Leuven 3000, Belgium  
farazatarodi@gmail.com, +32 492 839028

## Education

<b>Master of Technology in Electromechanical Engineering</b> KU Leuven, Leuven	<b>2019 – 2021</b>
<b>Bachelor of Science in Mechatronics Engineering</b> Sharif University of Technology, Tehran	<b>2013 - 2018</b>

## Academic Projects

<b>Self-Balancing Robot</b> Sharif University of Technology, Tehran	<b>2013-2014</b>
--	------------------

- Developed a prototype of a self-balancing robot using Python, C, and Arduino on platforms such as Raspberry Pi and Arduino alongside a variety of components and sensors

<b>Single-board Computers</b> Sharif University of Technology, Tehran	<b>2014 - 2015</b>
--	--------------------

- Carried research on replacement of embedded PCB boards with more accessible boards such as Raspberry Pi, Arduinos, and Asus Tinker Board

<b>Object Detection Software</b> Sharif University of Technology, Tehran	<b>2015</b>
---	-------------

- Developed a successful image detection and code recognition algorithm using Python and Java for use in robotic tournaments

<b>Integration of Computer Vision into Virtual Assistants</b> Sharif University of Technology, Tehran	<b>2016</b>
--	-------------

- Started a personal project and developed a concept on the use of computer vision in virtual assistants using OpenCV, Raspberry Pi, and OpenAI. The goal was to reduce the interaction needed between the user and the assistant.

<b>Vehicle Autopilot Solutions</b> Sharif University of Technology, Tehran	<b>2017 - 2018</b>
---	--------------------

- My final thesis in bachelor degree studied and designed the mechanical and electrical systems needed to convert an ordinary vehicle into a self-driving vehicle

<b>Disk Sorting Machine</b> KU Leuven, Leuven	<b>2019</b>
--	-------------

- Designed a full mechanical disk sorting machine according to the thickness that is primarily used in pharmaceutical factories as quality control for pills
- Modeled and simulated the machine using SolidWorks and Enterprise Dynamics

## Volunteer and Extra-Curricular

### Teacher's Assistant

2014 - 2015

Logical Circuits Design

- Taught extra classes as an assistant for students to help them with their questions and problems for one semester

Industrial Design using Computers

- Coached 3D CAD modeling projects in exercise sessions using SolidWorks and AutoCAD for one semester

## Work Experience

### IT Manager

2013 - 2016

Hamrahan Atebba Co., Tehran

- Designed and applied a complete 20 user network
- Managed the network and servers

### Full Stack Engineer

2014 - 2017

Hamrahan Atebba Co., Tehran

2014 – 2016

- Created an online shop for medical supplies and the company portfolio

Omran Souleh Co., Tehran

2016

- Created the company portfolio website
- Designed and managed the website

### Python Developer

2016 – 2017

Omran Souleh Co., Tehran

- Recruited and lead a team of 4 people in one of the largest steel structure manufacturers in Iran
- Designed a network between the main office and the factory
- Developed automation software in order to fail-proof legal procedures using JavaScript, Python, and SQL
- Developed automation software, linking Tekla software and Excel to company database using Python, VBA, and SQL

### Siemens Onsite Ultrasound Engineer

2018 – 2019

Fanavari Azmayeshgahi Ltd., Tehran

- Passed 3 months of training in ultrasound medical equipment in Siemens' exclusive partner in Iran
- Worked in the ultrasound department as the youngest technician in the company
- Visited and carried projects and repairs in more than 15 cities in Iran as a field Technician

## Certifications and Skills

### Languages

- Farsi: Native
- English: IELTS 7.5

### Programming languages

- Python: since 2015
- Java: 6 years
- JavaScript: since 2014
- C/C++: 3 years
- C#: 2 years
- HTML, PHP, CSS: since 2014
- VBA: 1 year