

## CURRICULUM VITAE

### MAHTA AKHYANI

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Personal Website:

#### EDUCATION

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<b>BS</b>	University of Tehran, Chemical Engineering	2018 to 2022
<b>High school Diploma</b>	Manzoumeh Kherad Institute	2006 to 2018

#### HONORS AND AWARDS

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<b>IUEE top 2%</b>	June 2017
Ranked among the top 2% in Iranian University Entrance Exam	
<b>Best Provincial Project - 18th Khwarazmi Youth Awards Tehran</b>	2017
18th Khwarazmi Scientific Competition, 'Designing different types of electrical compass'	
<b>School science fair winning project in the chemistry category</b>	Feb 2015
'Biological wastewater treatment for heavy metals removal with algae'	

#### RESEARCH EXPERIENCE

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<b>Department of Computer and Electrical Engineering</b> , University of Tehran	
<b>Robot Developer</b> , Advanced Robotic Laboratory	July 2021 to present

(Advisor: *Dr. Hadi Moradi*)

- Project: “Social Robot for Early Diagnosis and Intervention of Children with Autism”

- Designing and Developing web user interface (*HTML, CSS, Django, ROS*)
- Designing Human-Robot-Interactions
  - Facial Expressions: Android Development (Kivy Framework) - OpenCV
  - Body language: ROS Development (Python) - OpenCV

**Department of Chemical Engineering**, University of Tehran      March 2019 to Feb 2020

**Chem-E-Car Competition**, Pharmacology Laboratory

(Supervisor: *Dr. Reza Zarghami*)

- Designing and constructing a car powered by a chemical energy source:
  - Research and Synthesis of a new form of Zinc-Air battery
  - Designing Brake System based on “Ammonia fountain”

## **TEACHING EXPERIENCE**

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**University of Tehran, Department of computer and electrical engineering**

**Teaching Assistant**

- “Fundamentals of Mechatronics Engineering – BS course”      Feb 2022

- Developing and lecturing the part of the course materials related to ROS (Robot Operating System)
- Defining and grading the mini-project for ROS

- “Advanced Robotics – MS course”      Feb 2022

- Defining and grading of course’s main SLAM project

## Human-Robot-Interaction Laboratory (TaarLab), RoboTech Academy

### Teaching Assistant

- “Learning Python with Computer Vision approach”

March 2021

- Tutoring students
- Defining weekly assignments
- Defining weekly quizzes
- Grading assignments

## PUBLICATIONS

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### PROFESSIONAL TRAINING

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#### Certifications

Programming with Python - Tehran Institute of Technology  
Grade: 95/100

<https://mftplus.com/>

Back-End Developing with Django - UTech Academy  
Grade: 100/100

<https://utech-academy.ir/>

Deep Learning and Computer Vision - TaarLab: Human and Robot Interaction  
Laboratory (RoboTech Academy)

<https://robotech-academy.com/>

## PROFESSIONAL AFFILIATIONS

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- **Tehran Platform** [tehranplatform.com](http://tehranplatform.com)

Nov 2021 – present

Contract Robot Designer

- **Freelance Project**

Oct 2020 – May 2021

Design, SLAM, and navigation of a simulated and real indoor robot based on ROS and Kinect

- **UTech Academy** [utech-academy.ir](http://utech-academy.ir)

Oct 2019 – Jan 2020

Back-End Developer (Django Developer)

## COMMUNITY SERVICE

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### Self-Directed Volunteer

Teaching Python, Engineering Department, University of Tehran    July 2019 – Sep 2019

## LANGUAGES

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**English:** Advanced in Listening and Reading, Intermediate in Speaking and Writing

**Persian:** Native language

**Arabic:** Novice proficiency in Listening, Speaking, Reading, and Writing

## COMPUTER SKILLS

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**Programming:** Python, Django REST Framework, HTML, CSS, git, Kivy Framework (*Junior*), OpenCV (*Junior*)

**Applications:** SolidWorks, MS Office Word, MS Office PowerPoint, MS Office Publisher, MS Office Excel, Google Drive, Visual Studio Code, Postman, Adobe Character Animator, Adobe Illustrator (*Junior*), BlueStacks, Audacity, KineMaster, MS Windows Power Automate,

**Platforms:** Ubuntu, ROS (Robot Operating System), MS Windows, macOS, Android

## OTHER

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Interests/Hobbies worth noting

Citizenship

## REFERENCES

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**Dr. Albert Jones**, [Title]

[Department Name]

[University Name]

[Mailing Address]

Phone: [Phone #]

Email: [email address]

**Dr. Anne Smith**, [Title]

[Department Name]

[Company Name]

[Mailing Address]

Phone: [Phone #]

Email: [email address]