



# SEYED SALEHI

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## SUMMARY

I'm an engineer passionate about building smart, efficient, and reliable systems that bring AI and robotics to life. With hands-on experience in robotics, embedded systems, C/C++ programming, FPGA/ASIC design, and machine/deep learning, I bridge hardware and software to solve real-world problems. Currently completing my M.Sc. in Computer Vision, Robotics, and Machine Learning at the University of Surrey, I enjoy working in collaborative, fast-paced environments where innovation, automation, and intelligent systems meet practical engineering.

## WORK EXPERIENCE

**Teaching Assistant, Faculty of EE, Shahid Beheshti University** February 2024 – July 2024

- Courses: Microprocessors and Computer Architecture by Professor Nader Kazemi

**Teaching Assistant, Faculty of CE, Shahid Beheshti University** February 2023 – February 2024

- Courses: Artificial Intelligence by Professor Shahabedin Nabavi
- Courses: Artificial Intelligence by Professor Atefe Aghaei

**Teaching Assistant, Faculty of EE, Shahid Beheshti University** February 2023 – July 2023

- Courses: Technical Language (Electrical Engineering) by Professor Shokrollah Karimian

**Software Engineering Team Member, Sarmad Company** February 2023 - July 2023

- I was programming with C language in the field of Embedded Systems (VS & Code Composer)

**Robotics Training Expert, Sigma Company** April 2020 - September 2022

- I worked as a Robotics instructor and coach of students in national and international competitions, and I was also a member of the software engineering team, where we were designing the curriculum and also making the packages (body of robots & circuits & initial programming on the boards)
- Example: Member of the executive staff and organizer of the National Robotics Competitions of the University of Tehran [2021] & India International Robotics Competition [2022]

**Software Engineering Team Member, Cube Electronic Company** April 2022 - June 2022

- I was programming with C/C++ in STM32 & Keil

**NOC Team Member, Xicomm International Telecommunications Company** July 2021 - November 2021

- I worked as an NOC team member, where we were managing, testing, and monitoring calls over VoIP

## EDUCATION

**M.Sc. in Computer Vision, Robotics, and Machine Learning** September 2025 - September 2026

University of Surrey

- Example Token Modules: Robotics, Advanced Topics in Computer Vision, and Deep Learning

**B.Sc. in Electrical Engineering** September 2019 - July 2023

Shahid Beheshti University

- Selected Courses: English Language: 100/100, Electric Energy Systems Analysis: 98.5/100, Technical language: 97.8/100, Computer & Microprocessor Structure lab: 97.5/100, Computer Programming: 97.0/100, Embedded Systems: 96.3/100, Engineering Probability & Statistics: 95.0/100, Electrical & Electronic Measurements Lab: 95.0/100, BSC. Thesis: 92.5/100 (Simulation of Self-driving Car), Electrical Machines 2: 92.5/100, Calculus 1: 92.0/100, Linear Control Systems: 91.0/100, Introduction to Artificial Intelligence: 88.8/100, Automated design of VHDL digital circuit: 85.0/100, ASIC/FPGA Circuits: 83.8/100
- GPA: 77.0/100

**High School Diploma in Mathematics & Physics** October 2016 - July 2019

National Organization for Development of Exceptional Talents (Helli 4 School)

- GPA: 96.0/100

## PROFESSIONAL MEMBERSHIPS

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- **University of Surrey UAS Team Peryton Member:** We design, build, and fly autonomous aircraft for international competitions, including the IMechE UAS and BMFA payload, and I am building the aircraft as a team member for both IMechE and BMFA challenges this year (Sept 2025-Sept 2026)
- **University of Surrey Stage Crew (USSC) Member:** We prepare the sounds and visuals of the stage for any events (Sept 2025-Sept 2026)
- **University of Surrey Electronics & Amateur Radio Society (EARS) Member:** We are preparing our robot for the Battlebots Robotics Competition this year (Sept 2025-Sept 2026)
- **University of Surrey Sports Park (SSP) Volunteering Member:**  
I am part of the Halow Project, which helps adults with learning disabilities (Sept 2025-Sept 2026)
- **University of Surrey Enterprise Hub (SEH) Member:**  
I am a member of SEH and also participating in the Ignite sessions, where I learn how to generate ideas, build confidence, and network in teams (Sept 2025-Sept 2026)
- **Course Representative of Computer Vision, Robotics, and Machine Learning Program at the University of Surrey:** We provide a way for students to communicate their opinions and experiences to the staff who deliver their courses, and to make change happen (Sept 2025-Sept 2026)
- **Electrical Engineering Scientific Association Magazine (Kahroba-ye-Beheshti) Chief Editor:**  
Our (2020/21) edition was a candidate for the best scientific magazine in EE(Sept 2020-Sept 2021).  
**Also, Co-author:** Where I wrote about the IoT in the (2019-2020) edition of the magazine
- **Electrical Engineering Scientific Association Research Secretary:**  
We participated in the International Harekat Festival, where we demonstrated all of our achievements in the Electrical Engineering Faculty (Sept 2020-Sept 2021)

## RESEAECH INTERESTS

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- Artificial Intelligence, Machine & Deep Learning, Embedded Systems & IoT, Robotics & Autonomous Systems, ASIC & FPGA, Image & Video Processing

## CERTIFICATES

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- Machine Learning Specialization (Stanford Uni./Coursera), Mathematics for Machine Learning and Data Science Specialization(DeepLearning.AI/Coursera), Self-Driving Car Engineer Training Course(Udacity), Essay Writing Skills(Amirkabir Uni.), Completion of English Language Course in (ILI) for 12 years, English Teacher Training Course Certificate/TTC(Kish Language Ist.), IELTS English Teacher Training Course Certificate/ITTC(Shahid Beheshti Uni.), Preliminary and Advanced Degree Certificate in Photoshop(Shahid Beheshti Uni.), Degree Certificate in Photoshop Skill(TVTO)
- You can find the original certificates in my LinkedIn page

## PUBLICATIONS

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- Enhancing SOC and SOH Estimation in Lithium-Ion Batteries through SABRE and RELIANT-Based Approach: I used advanced DL models and architectures, enhancing the prediction of battery states

## ENGLISH TESTS

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- GRE (General test): Test date: 09/01/2024 / I am also learning German, and I am at the A1 level now
- IELTS (Academic): 7.0 (overall score)L: 7.5, W: 6.5, S: 6.5, R: 6.5, Test date: 17/11/2024
- IELTS (Academic): 7.0 (overall score)L: 7.5, W: 6.5, S: 6.5, R: 8.0, Test date: 12/05/2022

## TECHNICAL SKILLS

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- Circuit Design (Advanced Design System, PrimeSim HSpice, Cadence PSpice, Proteus Design Suite), Circuit Synthesis (Vivado Design Suite, Xilinx ISE Design Suite), Deep Learning (Conda & JupyterLab & Colab IDEs), C/C++ Programming (STM32Cube, Keil MDK, Arduino, Atmel Studio AVR, Visual Studio, Code Composer Studio), IoT(COOJA), Bibliographic Database (EndNote & Overleaf), 3D CAD (Autodesk Fusion), Math (Mathworks Matlab/Simulink)

## HOBBIES

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- Electronic Music Production (Graduated from Parsian Sound City Complex & Certificate from Technical & Vocational Training Organization of Tehran with 89/100 grade)(2016-Present), My Music
- Volleyball player in Tehran House of Volleyball (2014-2018) (Volleyball team member at Shahid Beheshti University in 2019-2020). I am now playing in the University of Surrey Volleyball sessions