

Nima chaharbaghi

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📍 PARIS, FRANCE

🌐 Nima chaharbaghi

Education

Master's degree, IEMDP Wireless telecommunication and IOT systems

ISEP - École d'ingénieurs du numérique Isep [🔗](#)

double degree student

2025 – Present

PARIS, FRANCE

Master of Science in Telecommunications Engineering

UNIVERSITY OF BOLOGNA (UNIBO) [🔗](#)

CGPA:28.6/30

2024 – Present

BOLOGNA, ITALY

Bachelor of Science in Electrical Engineering

ISFAHAN UNIVERSITY OF TECHNOLOGY (IUT) [🔗](#)

2019 – 2023

ESFAHAN, IRAN

Interests

- ML for Wireless Communication
- Signal Processing
- O-RAN
- 5G Prototyping
- 5G Core Network
- Localization

RESEARCH EXPERIENCE

Research Assistant, WiLab – University of Bologna

Under the supervision of Professor Roberto Verdone and in collaboration with Northeastern University, I contributed to the deployment and testing of a 5G system. Key accomplishments include:

- Configured and tested the Radio Access Network (RAN) using the OpenAirInterface framework.
- Worked within an OpenShift-based environment to manage system components and ensure stable operations.
- Operated various USRPs (X410, B210) using the UHD library for hardware configuration, signal transmission, and device management.
- Supported integration and troubleshooting efforts to improve network reliability and performance.

2025/01 – 2025/09

BOLOGNA, ITALY

Isfahan University of Technology IT Center

Internship Experience: Network Manager

- Developed proficiency in Linux administration at the LPIC-1 level.
- Strengthened networking and troubleshooting abilities at the CCNA level.
- Worked with OpenStack in cloud and virtualization projects, leading to better system performance and resource use.

2022/07 – 2022/09

ESFAHAN, IRAN

Projects

Secure Video Transmission System Using H.264 and AES Encryption <ul style="list-style-type: none">Designed a system to receive and decode transport stream data transmitted in H.264 format.Applied Advanced Encryption Standard (AES) to secure video streams, preventing unauthorized access.Implemented decryption for both AES and H.264 encoded data to ensure smooth video playback.Analyzed data flow, encryption, and decryption processes to optimize security and performance.	2024
Fast and Accurate Human Detection with HOG <ul style="list-style-type: none">Successfully applied HOG feature descriptor for human detection, showcasing expertise in computer vision techniques.Optimized the algorithm for efficient processing and accurate detection of human figures in various scenarios.Demonstrated strong problem-solving skills by overcoming challenges in feature extraction and classification to achieve reliable results.	2024
Real-Time Hand Gesture Recognition Using mmWave Radar (Final Year Project) <ul style="list-style-type: none">Designed and implemented signal processing algorithms to extract gesture features.Utilized machine learning techniques to classify and interpret hand gestures accurately.Integrated the system with user interfaces for practical applications.	2023
Implementing Effects of AWGN on Constellation, Constant Complex Channel Gain, and Multipath Channel using MATLAB <ul style="list-style-type: none">Utilizing Gray code for constellation point mapping to enhance error resilience.Generating random binary sequences and mapping them to complex constellations.Evaluating signal power and noise power for different Signal-to-Noise Ratios (SNR).Applying complex Gaussian noise to simulate real-world channel conditions.Investigating the impact of constant complex channel gain on signal constellations.	2023
OpenStack Local Development in Virtualbox <ul style="list-style-type: none">Successfully set up Virtualbox, Ubuntu Server VM, and utilized DevStack for OpenStack installation.Developed Python scripts to effectively interact with the OpenStack cloud, showcasing proficiency in virtualization, system configuration, and cloud resource management.	2022

Languages

ENGLISH IELTS 6.5	PERSIAN Native	FRENCH A1
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Skills

Matlab	Python
C++	LaTeX
XILINX Vivado	OpenCV
Open Air Interface	CCNA
SRSran	Linux LPIC