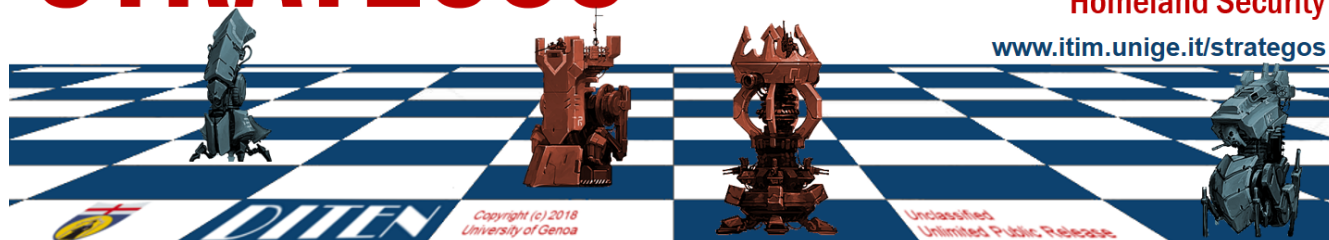# STRATEGOS

Engineering Technologies for Strategy in Defense, Industry, Government & Homeland Security

www.itim.unige.it/strategos

Master of Science on Engineering Technology for Strategy and Security

STRATEGIC Engineer Resume

Name   **Amirmohammad**

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Citizenship   **Iranian**

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Education & Special Certificates

15 September 2023 – Current, University of Genoa, International Master Science in Engineering Technology for Strategy and Security (Laurea Magistrale), STRATEGOS, Genoa, Italy

October 2014 - February 2019, Adiban institute of higher education, Bachelor Degree in Biomedical Engineering - Bioelectric, Garmsar, Iran

2010 – 2014, High School, Mathematics and Physics, Tehran, Iran

Professional Experiences

Internship: Aryapartow negar (X-RAY Imaging Service & support in Tehran, Iran) Apr 2022 – Oct 2023

Reconstruction and renovation of X-ray medical equipment, repair and troubleshooting of electrical boards and circuits, familiarization with the principles of mechanical and electronic design of medical imaging systems.

Military service: Hajar Hospital (Hospital in Tehran, Iran) October 2019 – Jun 2021

Maintenance and repair of hospital medical equipment, equipment purchase for different departments of the hospital, installation, commissioning, training of treatment staff, creation of list of main assets of devices in the whole hospital, QA (quality assurance) of radiology devices and calibration of laboratory centrifuges.

Internship, Firooz Abadi Hospital (Hospital in Tehran, Iran) Feb 2019 – Apr 2019

Assessing the need for medical equipment to operate the emergency department.

Projects

ECG simulation with Mcsharry equations using MATLAB. Implement Mcsharry equations in Simulink environment and define GUI to display output diagram.

Recognition of Persian text scripts with neural networks. Implementation of a software that detects Persian writings and saves them as a text file on the computer.

Online display of patient ECG signal on smart phone, using Arduino. Design of an Arduino-based system that allows Treatment staff to view the ECG signal of a Patient in real time.

Other Experiences

MATLAB (Image Processing) course, Apr 2019. Obtained "Excellent" rank of the program in Adiban Institute of Higher Education

Technical Skills

2D graphical design, using Corel Draw and photoshop

ICDL high skilled

Web site design using WordPress

ICT Skills

High skill in C programming language, MATLAB Image processing toolbox, and moderate skill in Python programming language

High ability in simulating electronic circuits and diagrams using Proteus

High skill in programing ATmega microprocessors, using Arduino and CodeVision

Languages

Persian (Native Language)

English (B2 Certified)

Other(s)   **Lectured on 'Digital Image Processing using MATLAB' June 2021**

Lectured on 'Introduction to IOT using Arduino' May 2021

Board member of student scientific association of electrical engineering, Faculty of Electrical and Computer Engineering, Adiban Institute of Higher Education

Organized extracurricular courses (MATLAB, Arduino and Proteus)

Advised first-year students

Experiences

when I was a bachelor's student, I saw a document about a biomedical engineer who wrote a new algorithm for processing medical images using MATLAB, so I decided to learn this skill, and I asked my professor about learning image processing, so he introduced me "Digital Image Processing: Gonzalez, Rafael, Woods, Richard" book. Although it was too heavy for me without any skill in programming at the moment, I finished the book after learning the basics of MATLAB on the internet, so I figured out that I could learn almost everything.

Now, I'm more confident about my skills, and I like facing new problems, which require learning new skills because I believe learning never ends.