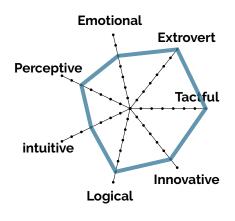
# CONTACT

- Atamoradi8@gmail.com
- GitHub
- in LinkedIn
- +64 22 121 4070
- Auckland, New Zealand

#### **PROGRAMMING SKILLS**

C/C++	6+ yrs
C#	1+ yrs
Python	3+ yrs
SQL (MySQL)	1+ yr
MATLAB	10+ yrs

### **PERSONALITY**



# **ATA MORADI**

Software Developer

# **PROFILE**

Motivated Software Developer with extensive experience in object-oriented programming, data management, embedded systems' implementation, AI, and control. Ability to work independently and as a group member. I enjoy coding, testing, and integration. Seeking a new challenges and opportunities to leverage. I take responsibility for finishing the work best and respect professional work

# **WORK EXPERIENCE**

2019 - 2022

### Software Developer

#### Aquila Start-up, Tehran, Iran

Role: Design and development of ADCS software for simulation and management with GUI and hardware connection capability. Toolsets: C/C++, Python, SQL, STK, ARM Core Board, and Unity.

2018 - 2019

## Satellite Attitude Determination and Control (ADCS) Engineer

#### Sharif Science and Technology Center, Tehran, Iran

Role: Conceptual, preliminary, and detailed design of ADCS subsystem. SIL, PIL, and HIL implementation. Moreover, final tests and sensors calibration. Toolsets: C, C/C++, SQL, VB, MATLAB.

2017-2018

### Hardware in the Loop Programmer

#### Sharif Science and Technology Center, Tehran, Iran

Role: Programming and controlling the micro-positioning system with Serial and SPI protocol and creating the UI for monitoring the system. Toolsets: C/C++, Hterminal, Arduino IDE, Pixy Camera.

2016

## **Data Analyst of Observatory's Site Light Pollution**

### Avastar Company, Tehran, Iran

Role: Night sky image capturing with CCD and estimation of sky's background magnitude limit, and finding seeing parameter with image processing and data analysis. Programming with Python and MATLAB. Toolsets: Python, MATLAB, CCD, I.P. toolbox, 12in telescope.

#### **AWARDS & HONORS**

#### 6th International Olympiad on Astronomy and Astrophysics (IOAA)

Silver Medalist

Rio de Janeiro, Brazil, 2012

7th National Astronomy and Astrophysics Olympiad

**Gold Medalist** 

Tehran, Iran, 2011

National Mechanical Engineering Olympiad

Ranked 7<sup>th</sup>

Iran, 2016

Ranking among 68 Mechanical Engineering M.Sc. students

Ranked  $2^{nd}$ 

Sharif University, Iran, 2018

Ranking among 128
Mechanical Engineering B.Sc. students

Ranked 7<sup>th</sup> & Best Thesis Sharif University, Iran, 2016

National CubeSat Design competition among 18 teams

Ranked  $\mathbf{1}^{st}$ 

Iranian Space Agency, Iran, 2017

Merit-based Admission Offer to the M.Sc. program

Sharif University, Iran, 2015

Group C/C++ programming competition

Ranked 2<sup>nd</sup> Sharif University, Iran, 2013

# **EDUCATION**

2016 - 2018

# M.Sc. - Mechanical Engineering

Sharif University of Technology, Tehran, Iran

Grade Point Average: 19.18/20.00 ( $A^+$ ) via 32 credits

Thesis Subject: "Completing the Fabrication of Magnetic Micro-Swimmer Positioning System and Designing an Optimal Controller to Minimize Energy Consumption"

2012 - 2016

### **B.Sc. - Mechanical Engineering**

**Sharif University of Technology, Tehran, Iran** 

Grade Point Average: 18.87/20.00 ( $A^+$ ) via 144 credits

Thesis Subject: "Novel Design and Manufacturing of Microfluidic PCR Amplification System by Temperature Control"

# **COMPUTER SKILLS**

M

Visual Studio Code (Python, Jupyter Notebook, C#, VB .Net)

Qt

Qt (C/C++, TCP/IP and Serial Connection)



PyCharm (Python: Pandas, Numpy, SciPy, PlotLy)



MATLAB (Scripts, Optimisation, Curve fitting, Image processing)



GitHub (Git server, Internet based, Group Code Control)



Latex (Overleaf)



Office (Word, Excel, PowerPoint, Visio, Outlook)



IC Programming (AVR, Arduino IDE)

# **WORK INTEREST**



Programming (Application Development, UI/UX, Test, Simulation)



Statistics & Data Analalysis (Big Data, Machine Learning, Data Base)



Optimisation (Searching methods, Multi Object, Heuristic Algorithm)



Embedded Systems (Connection Protocols, ARM, AVR, Raspberry Pi)