Ali Karimzadeh Esfahani

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♥ 6-65 Commanda Way, Ottawa, Ontario, Canada K1M 1E7

SUMMARY OF QUALIFICATIONS

- First year MEng in mechanical engineering student at the university of Ottawa.
- Excellent individual and teamwork skills honed through years of experience in university projects.
- Research and analysis skills developed by working on my Bachelor of Science theses.

EDUCATION

• Master of Engineering, Mechanical Engineering (Robotics)

University of Ottawa, ON

SEP 2022 - Until now

o Relevent Courses: Biomechanics of Movements, Digital Signal Processing, Applied Artificial Intelligence

• Bachelor of Science, Mechanical Engineering (Robotics)

University of Isfahan, Isfahan, Iran

SEP 2016 - OCT 2020

- o Bachelor's Theses: Using Deep Reinforcement Learning algorithms to push an object with robotic Manipulators Supervisor: Dr. Hossein karimpour Grade:20/20
- o Overall GPA: 3.46
- Relevent Courses: Computer Programming, Dynamics, Dynamics of Mechanics, Mechanical Vibration, Automatic Control, Robotics, Artificial Intelligence and Expert Systems, Simulation of Dynamic Systems and Control
- Relevent Courses from MSc Programs (voluntary Participation): Digital Image Processing, Robotics

SKILLS

• Engineerins Skills

- o Robotics & Reinforcement Learning: Robot Operating System(ROS), Gazebo, MoveIt, MuJoCo, OpenSim, LabVIEW
- o Machine Learning: TensorFlow, PyTorch, scikit-learn
- o Computer Vision: OpenCV, Matlab Image Processing Toolbox
- o Digital Signal Processing: MATLAB DSP toolbox, FIR and IIR filters, FMCW Radars
- Linear control system design: Lead, Lag, and PID Controllers
- o Embedded Systems: Raspberry Pi, NVIDIA Jetson TX1, Arduino
- o Web, and Android development: HTML, CSS, Tailwind CSS, React, Django, SQL, Android Studio
- o Operating Systems: Ubuntu, Windows, Debian

Languages

- **Programming:** Python, JavaScript, C++, Java
- Markup: LATEX, HTML, CSS, XML, SQL

Soft Skills

- Quick Learner: I am always eager to learn new things, especially in my research area of interest.
- Passionate to work in teams: With many projects that I have done in teams, I have experience with teamwork, and I am also good at working with Git and GitHub to ease teamworking.

RESEARCH INTERESTS

- Robotics
- Computer vision
- Digital Signal Processing
- Autonomous vehicles

- Machine Learning
- Controller design and Simulation
- Biomechanics
- Embedded systems programming

RELEVANT WORK EXPERIENCE
ACADEMIC PROJECTS
HONORS & AWARDS
WORKSHOPSWORKSHOPS & SEMINARS
REFEREES