Iman Jalilvand

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Summary

A resourceful, dedicated, and ambitious Ph.D. student who has always been enthusiastic about learning, especially in the field of AI and Extended Reality and their applications.

Education

Ph.D. (2020-present)	**Mechanical Engineering,** University of British Columbia (UBC), **Supervisors:** Professor Abbas Milani, Professor Bhushan Gopaluni, **GPA:** 91.7/100, A+
M.Sc. (2015-2018)	**Mechatronics**, Amirkabir University of Technology (Tehran Polytechnic), **GPA:** 86.55/100, A+
B.Sc. (2011-2015)	**Mechanical Engineering**, Science and Research Branch of Azad University, Tehran, **GPA:** 84.55/100, A+

Experience

Industrial	
2016-2018	**Research Engineer at CAR DESIGN INSTITUTE of the mechanical engineering department at Amirkabir University:** Research engineer of mechanical group Research engineer of the mechatronic group.
Academic	
2022	**Led a team of four graduate students for** Schneider Go Green 2022 and OpenCV **Competition sponsored by Microsoft Azure and Intel:** developing a Small-scale Digital Twin in Supply Chain 5.0 which was chosen from over 120 submissions and was among 22 university teams in North America.
2022	**Invigilation: Disability Resource Center at UBCO**
Sep-Dec, 2021	**Teaching Assistant at UBC-O: Engineering Drawing (CAD/CAM) Course:** Presenting and in class SolidWorks short tutorial the assignment during in-person classes, marking assignments, quizzes and final exams, invigilating.
2020 - now	**Graduate Research Assistant at CRNO:** collaborating on industrial projects at Composites Research Network – Okanagan.

Research Interest

Industry 4.0 and 5.0 and Digital Twins (DT), Machine Learning and AI, Reinforcement learning, and Mixed Reality and Augmented Reality

Publication

- Iman Jalilvand, Abbas S. Milani, Bhushan Golpaluni, An Interactive Digital Twin of a Composite Manufacturing Process for Training Operators via Immersive Technology, *Composites Communications Journal*, 2022 (submitted)

Language proficiency

- ✓ **Persian** Native
- ✓ **English** IELTS ACADEMIC (Overall score: 7/9), Listening: 7.5, Reading:7.5, Writing:6, Speaking: 7

Computer Skills

Microsoft Office: Excel, Word, PowerPoint
Programming: C#, Python, MATLAB, Fortran
Simulation: Unity, LabVIEW
Finite Element Modeling: ANSYS, ABAQUS, COMSOL
Mechanical Modeling Software: SolidWorks, CATIA, AutoCAD

Honors

Academic honors

- International Four-Year Doctoral Partial Tuition Award (IDPT), at UBC (2020-2024)
- Member of jury at 5th RSI International Conference on Robotics and Mechatronics (ICRoM) –October 2017.
- Talented Student Direct Admission (TSDA) in Amirkabir University of technology (AUT) – September 2015.
- Selected as Finalist team entitled “UBCO AR Solutions” in Schneider Go Green 2022 in North America and OpenCV Competition.

Notable courses

Multi-Criteria Optimization and Design of Experiments (A+, 98/100), Deep and Reinforcement Learning” (A+, 96/100), Applied Machine Learning for engineers (A+, 85/100), and Fundamentals of Immersive Technology, (A+, 90/100)

Certification

- Circuit Stream Certified XR Developer | University of British Columbia Extended Learning