

1 Personal details and the date of the CV

Surname: Heravi

First name: Mohammad

Date of the CV: 28/03/2023

2 Degrees

- 15/01/2017 M.Sc. in Mechanical Engineering-Applied Design; *GPA: 18.5 out of 20*
Sharif University of Technology, Tehran, Iran (<https://www.en.sharif.edu/>)
- 31/07/2016 B.Sc. in Chemical Engineering (as my second field of study); *GPA: 18.01 out of 20*
AmirKabir University of Technology, Tehran, Iran (<https://aut.ac.ir/en>)
- 19/04/2014 B.Sc. in Mechanical Engineering; *GPA: 18.75 out of 20*
AmirKabir University of Technology, Tehran, Iran (<https://aut.ac.ir/en>)

3 Other education and expertise

4 Language skills

Persian: Native

English: Proficient (C1 in CEFR)

GRE: (Nov., 12th, 2018) Quant=169, Verbal=156, Analytical Writing=4

TOEFL: (June 2nd, 2018) Overall=106, R=28, L=28, S=23, W=27

5 Current employment

- 13/06/2022 **Title:** Researcher
to **Employer:** Tampere University, Tampere, Finland
31/12/2023 **Job Description:** Development of autonomous behaviors for mobile working machines

6 Previous work experience

- 01/01/2015 **Title:** English Instructor
to **Employer:** Hafez Language Instructor, Qaen, Iran
01/05/2022 **Job Description:** Teaching English and getting students ready for the TOEFL and GRE in both online and face-to-face settings
-
- 01/01/2015 **Title:** Volunteer Researcher
to **Employer:** University Technology Service Complex, Azadi st., Tehran, Iran
01/01/2019 **Job Description:** Compiling reports and corresponding; Controller design for practical applications like a *rehabilitation robot for shoulder physiotherapy* <https://mheravi.ir/exo>; *anti-lock braking systems (ABS)*; among others https://mheravi.ir/after_grad

7 Career breaks

None to report

8 Research funding and grants

- 2013 & 2014 Granted the *National Elite Foundation Award (Iran)* for 2 years. (~ 6000 €))
- 2008 & 2012 Granted a scholarship from *Yavari Charity*—a non-profit organization aiding students from remote areas of Iran—during my Bachelors studies. (~ 4000 €)

9 Research output

Journals

S. Bayat, **M. Heravi**, H. Nejat Pishkenari, H. Salarieh, Dynamical modeling of an XY high-precision-positioner with a flexural mechanism using a genetic algorithm, *Modares Mechanical Engineering*, Vol. 18, No. 04, pp. 207-216, 2018

M. Heravi, H. Nejat Pishkenari, H. Salarieh, Dynamical Modeling and Robust Control of a Novel XY High-Precision-Positioner—*In Prepration*

A. Baselizadeh, **M. Heravi**, H. Nejat Pishkenari, H. Salarieh, Reinforcement Learning-Based Adaptive PID Control of a MIMO Prosthetic Hand Finger: A Computer Simulaion Study—*In Prepration*

Conferences

M.A. Soleimani, H. Zohoor, A.R. Fallah, **M. Heravi**, E. Mohammadi, "Designing, Prototyping, and Controlling a Portable Rehabilitation Robot for the Shoulder Physiotherapy and Training", *Proceedings 2019 IEEE The 7th International Conference on Robotics and Mechatronics* (<https://ieeexplore.ieee.org/document/9071844>)

M. Heravi, H. Nejat Pishkenari, H. Salarieh, "Dynamical modeling and control of an XY high-precision-positioner using simulink," *ISME, NO. 91799, 2017*

10 Research supervision and leadership experience

During my experience as a researcher in University Technology Service Complex, I was the de facto coordinator of some projects, organizing the activities of others related to those projects.

11 Teaching merits

Spring 2023 **Title:** Teacher Assistant
Institution: Tampere University, Finland
Course: *Fundamentals of Mobile Robots*

01/01/2015 **Title:** English Instructor
to **Institution:** Hafez Language Instructor, Qaen, Iran
01/05/2022 **Subjects:** English language in general and TOEFL and GRE in specific

Fall 2014 **Title:** Teacher Assistant
to **Institution:** Sharif University of Technology, Tehran, Iran
Fall 2016 **Courses:** *Applied Mathematics; Robotics; Dynamics and Vibration Lab.*

Fall 2010 **Title:** Teacher Assistant
to **Institution:** Amirkabir University of Technology, Tehran, Iran
Fall 2013 **Courses:** *Heat Transfer*

12 Awards and honours

- July 2015 **10%** Honors master student of the *school of mechanical Eng, Sharif Uni.*
- 2013 & 2014 Being a member of *National Elite Foundation (Iran).*
- May 2013 Credited to pursue an M.Sc. degree without the entrance exam at the *school of mech. Eng., Sharif University* (In my field of study, only 4 individuals among more than 120 had this opportunity)
- June 2013 **5%** Honors student of *dep. of mechanical eng., Amirkabir Uni. of Tech.*
- June 2013 **Ranked 1st** among 120 graduated students.
- Aug. 2009 **Ranked 52** among more than 45,000 participants in the district 3 of the annual *National Wide University Entrance Exam* and honored as a talented participant.

13 Other key academic merits

March 2018 The Referee of the Demonstration League
Amirkabir International Robotic & AI Contests (AUTCUP 2018); Tehran; Iran

14 Scientific and societal impact

As a hobby, I have been promoting open-source projects. Details of these activities can be found in https://mheravi.ir/open_source.

15 Other merits

May 2019 Fully funded admission to Monash University. (I could not attend due to the pandemy)

June 2020 Fully funded admission to University of Texas at Austin. (I could not attend due to the pandemy)

16 References

- | | | |
|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------|
| ○ Dr. Hassan Salarieh | ○ Dr. Gholamreza Vossoughi | ○ Dr. Hossein Nejat |
| - Professor , School of Mech. Eng., <i>Sharif Uni.</i> | - Professor , School of Mech. Eng., <i>Sharif Uni.</i> | - Assistant Prof. , School of Mech. Eng., <i>Sharif Uni.</i> |
| - Ex-President , Mech. Dep. | Tel: (+98)21-66005716 | Tel: (+98)21-66165543 |
| Email: salarieh@sharif.edu | Email: vossough@sharif.edu | Email: nejat@sharif.edu |
| Page: sharif.edu/~salarieh/ | Page: sharif.edu/~vossough/ | Page: sharif.edu/~nejat/ |