


Curriculum Vitae

Hamid Manouchehri

 hamid.manouchehri.nif@gmail.com

 (+98) 938 – 3315454



Education:

- **Master of Science in Mechatronics Engineering**
University of Tehran
Thesis title: [A Model-based Control System for Bi-manual Manipulation](#) (In progress)
GPA: 3.22 / 4 (15.91 / 20.00)
Tehran, Iran
2019 - Dec 2022
- **Bachelor of Science in Electrical Engineering (Control Engineering)**
University of Kashan
Project title: Design and Manufacturing of Pneumatics Table of Control Laboratory ([link](#))
GPA: 3.09 / 4 (15.74 / 20.00) - last two years
Kashan, Iran
2015 - 2019

Research Interests:

- Legged locomotion
- Machine Vision
- Robotic Manipulators
- Autonomous Mobile Manipulators
- Underactuated Robotics
- AI, particularly for robotics applications

Teaching Experience:

- **Teacher Assistant**
Instructor: [Dr. Farzan Rezaei](#)
Course: Digital Logic and Computer Design
Responsibilities: Teaching applications of 'Proteus Design Suite' in digital circuit analysis and design, and mentoring the students.
Spring 2017

Project and Research Experiences:

- Implementation of **Ant Colony Optimization (ACO)** in **Vehicle Routing Problem** and **Genetic Algorithm** in a **Decision Making Problem**. ([link](#))
Instructor: [Dr. Masoud AsadPour](#)
Course: Bio-inspired Computing
Apr 2021
- Implementation of a **PID Controller** by **Fuzzy Logic** (Self-organizing Fuzzy PID Controller)
Instructor: [Prof. Aghil Yousefi Koma](#)
Course: Fuzzy Systems: Theory and Control
Jan 2021
- Simulation of a **Wheeled Inverted Pendulum** by **Partial Feedback Linearization** ([link](#))
Instructor: [Dr. Khalil Alipour](#)
Course: Nonlinear Control Systems Design
Feb 2021
- Design and Manufacturing of a **3-DOF Robotic Manipulator (MeArm)** ([link](#))
Instructor: [Dr. Mohammad Dehghani](#)
Course: Advanced Robotics
Mar 2020
- Design and Simulation of a **Pipe-inspection Robot** in SolidWorks ([link](#))
Instructor: [Dr. Alireza Hadi Hosseiniabadi](#)
Course: Mechatronics 2
Feb 2020
- **Fanavard Competition of Sharif University of Technology**
→ As a team we were planning to run an E-Commerce **startup** to provide online repairing services.
Summer 2017

Skills:

- **Robotic Softwares / Middlewares:** Robot Operating System (ROS 1), rbdl toolkit, Rviz, MOVEit (familiar), OpenCV (familiar), RoboDK (familiar)
- **Programming Languages:** C (Professional), Python, C++, C#, bash script, XML, Lua
- **Technical Softwares:** Matlab (Script, Simulink, GUI), Proteus, Altium Designer, Docker
- **Mechanical Softwares:** SolidWorks, FreeCad (familiar), MCS Adams
- **Embedded Systems:** MPLAB X IDE (PIC MCUs), Keil (ARM MCUs), CodeVision (AVR MCUs), Raspberry Pi Pico MCU, Arduino IDE, Raspberry Pi (Raspbian OS), NodeMCU, SIM800L GSM
- **Version Control Tools:** Git, Github, Gitlab
- **Linux:** LPIC-1 (Linux Professional Institute)

Working Experience:

- **Electronics Engineer, Part-time** ([link](#))
Employer: Parmis Smart Home
Business: Design of smart devices for BMS (Building Management System)
Responsibilities: Embedded system designer, Firmware developer of PIC MCUs
Isfahan, Iran
Mar – Dec 2021
- **Electronics Engineer, CAD Designer, Part-time** ([link](#))
Employer: Kanda Idea Company
Responsibilities: Research and Development, Designing a box for some electrical devices with SolidWorks
Tehran, Iran
Feb – Nov 2020
- **Windows Software Developer, C# programmer, Internship**
Employer: Behyar Sanaat Sepahan Co.
Responsibilities: Development of windows softwares in VisualStudio (WPF), C# programming
Isfahan, Iran
Jun – Aug 2017

Certificate:

Robot Operating System (**ROS**): Basic, offered by [PISHROBOT](#), approved by **ROBOTIS**
Covered topics: Basic concepts of ROS 1 (melodic), navigation of TurtleBot in Rviz as final project.
Sep 2021

Language Proficiency:

Level	Overall Score	Scores	Exam	Date
Advanced	-	-	IELTS (Academic)	November 2022

References:

Dr. Mohammad Shahbazi	M.Sc. Supervisor	Assistant Professor School of Mechanical Engineering Iran University of Science and Technology Email: shahbazi@iust.ac.ir , HomePage , Google Scholar
Dr. Bahram Tarvirdizadeh	M.Sc. Supervisor	Associate Professor Faculty of New Science and Technology University of Tehran Email: bahram@ut.ac.ir , HomePage , Google Scholar
Dr. Alireza Hadi Hosseinabadi	M.Sc. Advisor	Associate Professor Faculty of New Science and Technology University of Tehran Email: hrhadi@ut.ac.ir , HomePage , Google Scholar