

# Hadis Ganji

B.Sc. in Computer Engineering

📅 March 28th, 1999 | 📞 +989184318309 | ✉️ Hadisganji99@gmail.com | 🏠 ganji-hadis.github.io | 🌐 github.com/ganji-hadis

## Education

### University of Isfahan

Isfahan, Iran

B.Sc. in Computer Engineering (Computer Architecture)

Sept 2017 - Jul 2022

- **GPA:** 3.80 (18.17 out of 20) for the last two years
- **Thesis Title:** Smart Sitting Position and Energy Management Device: An Arduino-based Solution for Improved Health and Sustainable Electricity Consumption
- **Supervisor:** Dr. Mohammad Reza Reshadinezhad
- **Course Focus:** Final Thesis (19.5/20), Real-Time Embedded Systems (18.5/20), Computer Networks (19.25/20), VLSI (18/20), Linear Control Systems (18.75/20), Hardware and Software Co-Design (20/20), Digital Electronic (17/20), Industrial Automation Systems (20/20)

## Research Interests

**Internet of Things - Power Electronics/Power Systems/Smart Grid - Board Design - Nano/Micro Devices and Sensors - Control Systems - Networking**

## Honors

- Top student of computer architecture specialization with a GPA of 18.52 out of 20.
- Accepted in "The Exceptional Talents" high school through high school entrance exam and being among the top students with a GPA of 17.5 out of 20.
- Ranked first in provincial 50 meters and second in provincial 100 meters of female breaststroke.
- Achieving numerous 1st and 2nd positions in provincial and national volleyball tournaments.

## Publications

### MANUSCRIPTS

Sitting Position and Energy Management Device: An Arduino-based Solution for Improved Health and Sustainable Electricity Consumption  
Hadis Ganji

Written Manuscript (Aug. 2022). 2022

## Projects

### Sitting Position and Energy Management Device: An Arduino-based Solution for Improved Health and Sustainable Electricity Consumption

Isfahan, Iran

University of Isfahan (B.Sc. Thesis)

Jan 2021 - May 2022

- **Supervisor:** Dr. Mohammad Reza Reshadinezhad
- **Technical Fields Involved:** Embedded Systems - PCB Design – Sensor Interface and Integration - Microcontroller Programming - Control Systems for Actuators
- Detecting user's sitting position with ultrasonic sensors.
- Prompting users to correct their posture by automatically turning off the lamp using the relay.
- A temperature sensor monitors the environment and alerts the user through LEDs in extreme temperatures.
- Providing a comfortable and conducive environment for reading and sitting, and enhancing the overall user experience effectively.

### Designing a board to support Power on Ethernet (PoE) for setting up surveillance cameras and providing information about the products' operational status

Isfahan, Iran

Eede Pajhouhan Espadana (EEPA)

Oct 2022 - Apr 2023

- **Technical Fields Involved:** PCB Design - Power on Ethernet - Power Electronics
- Receiving power and network data through a network socket (WAN port).
- Directly supplying power to the second network socket (LAN) to activate the camera.
- Reducing the 12V input voltage to 5V, enabling its utilization for the board's internal components.
- Incorporating five LEDs into the system that are effectively interfaced with the processor's I2C pins via a PCF8574ap module, allowing them to convey essential information during operation.

## Course Projects

Isfahan, Iran

University of Isfahan

- Smart Liquid Level Monitoring System with Real-Time Alerts (Microprocessor Lab Project)
- Web-Based LED Control and Management with Wemos Mini ESP8266 Module (Interface Circuit Lab Project)
- Simulating the management of one entrance and one exit
- Multi-Dimensional Determinant Calculator: streamlining matrix determinant calculations, supporting various dimensions for optimal efficiency (Hardware Software Co-Design Project)
- Simulating the Full Automation of a Production Line (Industrial Automation Lab Project)

## Work Experiences

### Eede Pajhouhan Espadana (EEPA)

Isfahan, Iran

Network and Hardware Engineer

Jul 2022 - Present

- Setting up and supporting networks
- Designing PCB boards

## Internships

### Information Technology and Communication Center of Isfahan University of Technology

Isfahan, Iran

Setting up DDR3 RAM on FPGA with VHDL codes

Jul 2021 - Sep 2021

## Skills

### Programming Languages

C/C++ - VHDL

### Computer Architecture

Arduino - Xilinx ISE Design - Altium Designer - Proteus - STM32CubeMX - Keil uVision - PSpice and HSpice - Xilinx vivado

### Network Softwares

WireShark - Cisco Packet Tracer - Linux OS

### MS Office

Word - Power Point - Excel - Visio

### Soft Skills

Leadership and Conflict Resolution - Discipline, Planning, and Time Management - Teamwork Skills - Decision Making and Reasoning in Critical Situations

## References

- **Referee 1:** Dr. Kamal Jamshidi  
**Affiliation:** Professor at the University of Isfahan  
**Email:** jamshidi@eng.ui.ac.ir
- **Referee 2:** Dr. Zohre Beiki  
**Affiliation:** Assistant Professor at the University of Isfahan  
**Email:** z.beiki@eng.ui.ac.ir
- **Referee 3:** Dr. Mojtaba Mahdavi  
**Affiliation:** Chief Executive Officer at the "EEPA" Corporation; and Professor at the University of Isfahan  
**Email:** m.mahdavi@eng.ui.ac.ir  
**Gmail:** mahdavi110@gmail.com

## Language Proficiency

**English** IELTS Band Score 7 (Listening 7.5 - Reading 7 - Writing 6 - Speaking 6.5)

**Persian** Native proficiency

## Workshops

### Network+

Isfahan, Iran

Online

Sep 2021 - Oct 2021

### Introduction to Python

Isfahan, Iran

University of Isfahan, Department of Physics

Dec 2017 - Mar 2018