# Hossein Gholami

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## WORK EXPERIENCE

- **Digikala – Automation & Robotics Team — Software Engineer, Tech Lead**　　　　**2022–Present**
  - ScopeLed embedded/IoT system design for warehouse automation, focusing on real-time MQTT comms, OTA devices, and cost-efficient hardware.
  - Wheel SorterHigh-speed sorter with CAN-bus motor drivers, MQTT server integration, and barcode vision – improved throughput and reduced manual handling. - more detail
  - Put-to-Light v1AVR-based CAN-bus nodes with buttons/lights (OTA-enabled) – improved picking accuracy for new operators. - more detail
  - Put-to-Light v2ESP32 + LED strip redesign – reduced sorting time per item from 6.0s to 5.1s and lowered hardware cost by ~30%. - more detail
  - Smart ScaleWi-Fi–enabled scale (0.1–50 kg) with load cell + ESP32 – automated weight capture into SuperNova, reducing operator error. - more detail
  - Noise DetectorSound-level monitoring device for public spaces – enabled proactive environment management.

- **Basir Andishan Bina Tadbir (BABT) — Embedded Software Engineer**　　　　**2021–2022**
  - Multifunctional Vehicle TrackerDeveloped cost-efficient tracker on MediaTek MT2503 (GSM+GNSS) – enabled fleet monitoring under vendor limitations. - more detail

- **Andishe Fartak AmirKabir (Atrovan) — Embedded Developer**　　　　**2018–2019**
  - Indoor IR ControllerSTM32F1 firmware for IR learn/regenerate with ESP8266 connectivity – consolidated multiple remotes into a smart-home device. - demo video

## EDUCATION

**Amirkabir University of Technology** (QS Global World Ranking)　　　　Tehran, Iran
M.S. in Electrical Engineering – Digital Electronics　　　　GPA: 17.0/20.0　　　　2018–2021

  - Thesis: "Analysis of Data Received from Vehicles for Driver Behavior Profiling on the Cloud" –**Supervisor:** Dr. Seyed Ahmad Motamedi - Blog summary

**K. N. Toosi University of Technology** (QS WUR By Subject Ranking)　　　　Tehran, Iran
B.S. in Electrical Engineering – Electronics　　　　GPA: 16.25/20.0　　　　2014–2018
Last two years GPA: 17.18/20.0

  - Thesis: "Implementation of Cloud Switches with Power, Temperature, and Humidity Measurement via MQTT" –**Supervisor:** Dr. Amir Mousavinia - Blog summary

## SKILLS

- **Embedded & IoT Development:**

  *ESP32 (ESP-IDF, FreeRTOS), STM32 (CubeMX/CubeIDE, FreeRTOS), MediaTek (Nucleus RTOS), Quectel (OpenCPU), AiThinker (A9 SDK)*

- **Backend Development:**

  *Django, FastAPI, Celery, RabbitMQ, Redis, SQL/NoSQL*

- **Frontend Development:**

  *React, HTML5, CSS3, JavaScript*

- **DevOps & Tools:**

  *Docker, Git, Linux, Jira, Adobe Photoshop, ChatGPT*