# Shervin Fallahnejad

 ${\tt EMBEDDED\,HARDWARE/FIRMWARE\,DEVELOPER\,\cdot\,ELECTRONICS\,EXPERT\,}\\ SK7\,2LJ,\,2\,Sunningdale\,Drive,\,Bramhall,\,Stockport,\,Manchester,\,UK}$ 

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# **Education**

### Semnan Azad University (SIAU)

Semnan, Iran

B.Sc. IN Industrial Engineering - Industrial Production

Sep. 2004 - Exp. May. 2010

# Skills.

**Electronics** Altium Designer, LabView, PSpice, Keil uVision, MPLAB, MikroC, MikroBasic, MikroPascal, HT-IDE3000(Holtek),

PlatformIO, ESP-IDF, Proteus, Bascom, CodeVision

Mechanics SolidWorks, AutoCad

**Programming** C/C++, Basic, Pascal, Visual CSharp, Visual Basic, Java

GUI Qt, HTML, CSS, JS

**Platform** Microcontroller, Linux, Windows, Android, Commodore 64

**DevOps** Bash, git, cmake

# **Experience**

YAMA Electronics Tehran, Iran

CO-FOUNDER & ELECTRONICS DESIGN ENGINEER

Sep 2020 - Present

• We are producing Home Appliances electronic boards, such as Kitchen Hood, Oven, Stove Timer, etc... . We are working with different company in whole country (Iran).

Unalink Co. Tehran, Iran

• Designed a Remote Terminal Unit (RTU) to enable information exchange between physical power grid and distributed control system.

Developed a web server to communicate data from web to RTU on STM32.

### Ovio Smart World - Smart Home and Office Automation

Tehran, Iran

Apr 2020 - Sep 2020

SOFTWARE & HARDWARE ENGINEER

**ELECTRONIC DESIGN ENGINEER** 

Nov 2019 - Feb 2020

- Design and Development a Hardware based on ESP32, as a Connected IR Blaster.
- Implement and Development a File System for ESP32.

Samsson Group Tehran, Iran

Software & Hardware Engineer

Apr 2019 - Sep 2019

• IoT Platform Development.

Fara Fan Faraz Tadbir Tehran, Iran

SOFTWARE & HARDWARE ENGINEER

Sep 2015 - Sep 2016

- Design and Development of Poultry Farming Environmental Control System
- Monitoring and Control of Industrial Refrigeration System.

### **Tosan Rahvar - Design and Production of Electronic Switches**

Tehran, Iran

SOFTWARE & HARDWARE ENGINEER

Aug 2013 - Present

- Design and Development of Touch Control Switch for Kitchen Hood.
- Design and Development of Elevator Touch Button.
- Design and Development of Oven Controller.

### Negaresh Rayaneh Pouya (NRP)

Tehran, Iran

Sep 2014 - Sep 2015

SOFTWARE & HARDWARE ENGINEER

MARCH 21, 2022

- Design and Development of Industrial Oil and Gas Electric Actuator.
- Design and Development of Pilatus PC-6 Porter Altimeter.
- Design and Development of Boost Converter 6v to 19v 3Amp.

SHERVIN FALLAHNEJAD ROSTAMKOLAEI · CURRICULUM VITAE

### **NoAvaran Tajhizat Imen Bargh (NATIB)**

SOFTWARE & HARDWARE ENGINEER

Tehran, Iran

Aug 2013 - Feb 2014

- · Design and Development of Electronic Grounding System.
- · Design and Development of Fluorescent Electronic Ballast.

Kimia Behsani Tehran Iran

SOFTWARE & HARDWARE ENGINEER

Aug 2013 - Present

- Designed and developed a Hardware based on PIC32, as a Tensile Machine controller.
- Implement and develop Tensile machine software in CSharp.
- Implement a bootloader in CSharp software to remotely upgrade hardware.

### **Gaam Electric - Welding & Cutting Equipment**

Nov 2011 - Mar 2013

**ELECTRONIC DESIGN ENGINEER & FIRMWARE DEVELOPER** 

- Designed and developed a GUI and Hardware as a HMI for TIG 500A welding machine.
- Designed and developed a Database on PIC32 to handle lots of data related to welding machine.
- Implement a software in CSharp to communicate with a Hardware for test welding machines operations.

# **Extracurricular Activity**

### Amirkabir University of Technolog - Robotic Institute

Tehran, Iran

Nov. 2011 - PRESENT

- · Gained expertise in penetration testing areas, especially targeted on web application and software.
- Participated on a lot of hacking competition and won a good award.
- Held several hacking competitions non-profit, just for fun.

## **Honors & Awards**

#### INTERNATIONAL

Finalist, Amirkabir University of Technology Robotics & Artificial Intelligence Festival & 4th National 2012

Kharazmi Robotics Competitions

**3rd Place**, Isfahan University of Technology Robotics Competitions 2010

Tehran, Iran

# **Projects**

### **Minimal LED Floor Lamp**

Tehran, Iran

2020

- Self-Learning Capability
- · Touch Control

PERSONAL

· Anodized Aluminium Profile

### Monitoring and Control of Server & UPS Rooms Environmental Parameters

Tehran, Iran

NATIONAL RESEARCH INSTITUTE FOR SCIENCE POLICY OF IRAN

2020

- · Monitoring and Control using a Web-Server.
- · Linux OS on a Raspberry Pi.
- BLE Temperature & Humidity Sensors.
- · Monitoring all UPS's Parameters using SNMP.
- Universal IR Blaster to Control A/C.
- Call and SMS in case of CRITICAL conditions.

### Monitoring and Control of Industrial Refrigeration. (Poultry Cold Storage)

Tehran, Iran

FARA FAN FARAZ TADBIR

2020

- Monitoring and Control using a Web-Server.
- · Linux OS on a Raspberry Pi.
- DS18B20 1-Wire Temperature Sensors in a Mesh Network.
- Tiny self designed UPS to keep system alive in power failure.

### **Design and Development of Touch Control Switch for Kitchen Hood**

Tehran, Iran

Tosan Rahvar

- Capability to Record and Play Voice Messages on Kitchen Hood.
- · LED Display.
- · Temperature and Gas Sensors.
- IR Remote Control.
- · Switching Power Supply.

2019

### **Design and Development of Elevator Touch Button** Tehran, Iran Tosan Rahvar 2019 · I2C Protocol. · Unique Address for each Button. Touch Sensitivity Up to 5CM. • RGB LED Indicator. **Design and Development of Oven Controller** Tehran, Iran TOSAN RAHVAR 2018 • Linux OS on a NanoPi Fire2A. • 7" Touch Display. · Nice GUI Implemented using Qt. **Design and Development of Touch Control Switch for Kitchen Hood** Tehran, Iran Tosan Rahvar 2018 • 16 WS2812 RGB LEDs. Temperature and Gas Sensors. • IR Remote Control. Switching Power Supply. **IoT Platform Development** Tehran, Iran SAMSSON GROUP 2018 **Infrared Heating Panel** Tehran, Iran 2017 • Make an Conducting Ink using Graphite and other Chemical Materials. • 85°C on 12V, 4A Input. • It had cracks in the structure and need some improvement.... Design and Development of Poultry Farming Environmental Control System Tehran, Iran FARA FAN FARAZ TADBIR · 7-Segment Display. • PIC18 Series as a Core Processor. • DS1307 RTC. · Sensirion SHT21 Tempreture & Humidity Sensor. · Sensirion Pressure Sensor. • RS485 Protocol. · Aviculture algorithm. Design and Development of Industrial Oil and Gas Electric Actuator Tehran, Iran NEGARESH RAYANEH POUYA 2015 ATEX Certification • Multi-turn Capability Inching/positioning and On/Off · Wedge, Knife, Sluice/weir, Diaphragm, Conduit/slab, Parallel slide, Globe, Choke, Butterfly, Ball, Plug, Damper Can be installed. · 250 Actuators on Rayabus Specific Network are Fully under Control and also Modbus and Profibus. • Configuration and Calibration without need to open Actuator Panel. **Design and Development of Pilatus PC-6 Porter Altimeter** Tehran, Iran NEGARESH RAYANEH POUYA 2015 · Broadcom Avago Dot-Matrix Display. • PIC18 Series as a Core Processor. · Pressure Sensor. · Stepper Motor. Design and Development of Boost Converter 6v to 19v 3Amp Tehran, Iran NEGARESH RAYANEH POUYA 2014 **Design and Development of Injection Machine PLC** Tehran, Iran PISHRO POUYESH 2014 • Linux on CubiBoard Mini Computer. PIC32 IO Control board with LAN Inteface to CubiBoard. **Design and Development of Electronic Grounding System** Tehran, Iran NoAvaran Tajhizat Imen Bargh (NATIB) 2013 · Protect against Spark in Explosive Gas Atmospheres.

· Based on Op-Amps.

Design and Development of Fluorescent Electronic Ballast	Tehran, Iran
NoAvaran Tajhizat Imen Bargh (NATIB)	2013
<ul><li>Protect against Spark in Explosive Gas Atmospheres.</li><li>2-Channel.</li></ul>	
Implemented Value Engineering - Material Substitution Model	Sari, Iran
GAAM ELECTRIC - WELDING & CUTTING EQUIPMENT	2012
Developed and Implemented a Database on MCU Flash	Sari, Iran
GAAM ELECTRIC - WELDING & CUTTING EQUIPMENT	2012
Save and Load Lots of Parameters with its own Attributes with ease.	
Developed and Implemented USB HID Bootloader on PIC32MX460F512L	Sari, Iran
GAAM ELECTRIC - WELDING & CUTTING EQUIPMENT	2012
Design and Development of Welding Machine Control Panel	Semnan, Iran
GAAM ELECTRIC - WELDING & CUTTING EQUIPMENT	2011
<ul><li>PIC18 Series as a Core Processor.</li><li>128x64 GLCD</li></ul>	
Design and Development of Liquid Level Monitoring In A Large Tank	Semnan, Iran
Personal	2010
<ul><li>Atmel AVR Atmega8 as a Core Processor.</li><li>Ultrasonic.</li></ul>	
<ul><li>LPT Communication to Camputer.</li><li>Use of MATLAB for Data Analysis.</li></ul>	
Work with a Fingerprint Sensor	Behshahr, Iran
Personal	2009
Transfer Data on RS232 Protocol.	
Design and Development of Stroboscope for Extruder Machine Blade Calibration	Behshahr, Iran

2009

BEHPAK INDUSTRIAL CO.