

# Sina Shiri

## Professional Experience

2020-Present **Ichicoin Financial Markets Co.**

- Software Programming
  - Designing and Developing different Bots for Financial Markets (Auto-Trade, Signaling, Trade tools, ...)
- Trade
  - Trading on Crypto and Forex Charts (BTCUSDT, XAUUSD)
- Hardware Designer
  - Designing Custom Miner Devices

2017-2020 **Istasanat Eng. Co.**

- Python programmer
  - Industrial controlling and monitoring systems
  - Industrial and public usable safety systems
- Hardware Designer
  - Designing various industrial systems hardware

2016-2017 **Freelancer**

- Hardware Designer and Python programmer
  - Designing Projects (Smart Caller-ID and Roll Call)
- Academically works
  - Publishing First Full Reference of Raspberry Pi Book in Persian Language

## Education

2013-2016 **Mohajer Technical University of Isfahan, Isfahan, Iran, B.Sc. in Electrical Engineering - Electronic Technology,**

GPA: 18.65/20, highest Score of my graduating class

Thesis: "Detecting and Tracking Special Moving Objects in Public Environments on the ZYNQ platform" [See abstract](#)

2011-2013 **Tabriz Technical and Vocational University, Tabriz, Iran, Associate Degree in Electrical engineering,**

GPA: 17.85/20, ranked within the top 1% of my graduating class

Thesis: "Data Graph of Industrial Sensors in Noisy Environments without Distance Limit" [See abstract](#)

## Publication

2018 **S. Shiri, H. Aalamshahi, "Full Reference of Raspberry Pi 2nd Edition" . Tabriz, Iran: Elmiran, [See abstract](#)**

2017 **S. Shiri, H. Aalamshahi, "Full Reference of Raspberry Pi Vol.1 and Vol.2" . Tabriz, Iran: Elmiran, Ebadi [See abstracts](#), [vol.1](#), [vol.2](#)**

## Skills & Abilities

Programming Languages Python, C++, PineScript, Visual Basic, JavaScript, Verilog, VHDL, PLC Ladder logic

Single-Boards Computers Raspberry Pi, Google Coral Dev Board, ASUS Tinker Board, Rock Pi, Ordroid

Evaluation Boards Zynq-7000 SoC (Zybo Z7), AVR (Atmega8,32,64), ARM (ST,AT91SAM)

Engineering Softwares Pycharm, Keil, Vivado, Vivado HLS Tool, LabView, MATLAB, Altium Designer, ISE Design, Modelsim, Proteus, orCAD, PSpice, Hspice, CodeVision AVR, Meta Editor, Fritzing, QtDesigner

## Memberships

2021-Present **CEO of IchiMarket Website**

2020-Present **CEO of Ichicoin Financial Markets Co.**

2017-2022 **Member of Iranian Writers Association, (Four books have been published)**

## Projects

- 2022 **Auto Money Management tool for Scalp/Fast-Scalp Traders**, [See more](#)
- **Specifications**
    - Implementing different Methods of Money Management
    - Putting TP/SL Orders Automatically in Fast-Scalp Trades
    - Reducing Psychological Problems
  - **Software:** Python (TALib, matplotlib, pandas, openpyxl, pyrogram), Exchanges API (Binance)
- 2022 **Crypto Market Auto-Trade Bot**, [See more](#)
- **Specifications**
    - Analyzing more than 400 charts and manage 10 positions in same time
    - Having different Money Management, Protective-Stop and Trailing-Stop modes
    - Supporting various strategies
  - **Software:** Python (TALib, matplotlib, pandas, openpyxl, pyrogram), Exchanges API (Binance, KuCoin, Coinex)
- 2021 **Design Chia Block-chain Miner**, [See more](#)
- **Specifications**
    - Auto starting to mine and handle emergency events
    - Supporting 20 \* 12TB HDD
  - **Software:** Python (RPi.GPIO), HPool API
  - **Hardware:** Raspberry Pi, Hard Disk Drives, Custom Device Design
- 2020 **Real-Time Signal and Position Finder Bot in Crypto Markets**, [See more](#)
- **Specifications**
    - Implementing various Technical Strategies (Price Action, indicators and oscillators)
    - Working on all Time-Frames (1m, 5m, ..., 1W) and Analyze more than 400 charts simultaneously
    - Notifying Positions in Real-Time or candle close by Telegram API
  - **Software:** Python (TALib, matplotlib, pandas, numpy), Exchanges API (Binance, KuCoin, Coinex)
- 2020 **Standalone and Network Based Alarm Monitoring**, (*Licensed by [Mechanic Ab Co.](#)*), [See more](#)
- **Specifications**
    - Detecting Input in AC(110v-220v) and DC(12v-24v) modes
    - Working and saving all Alarm events in two main mode: Standalone, Connected to Local Network
    - Monitoring Alarms in HDMI output and Web-View in Local Network
    - User can applies commands from Hardware, UI and Web-View inputs
    - User can Customizes number of alarms, each alarm mode and title
  - **Software:** Python (PyQt, http.server, RPi.GPIO, multiprocessing, sqlite3, pyodbc), SQL Server, CSS, HTML
  - **Hardware:** Raspberry Pi, Pi Camera, Custom PCB Board with forty AC-DC Input
- 2019 **Fire and Smoke Detector using Image Processing**, (*Licensed by [Mechanic Ab Co.](#)*), [See more](#)
- **Specifications**
    - Raising alarm through: SMS, Website(Network, GSM), Hardware IO, Local Web-View, Local Windows Software
    - Analyzing Environment by Image Processing and Custom Neural Network and Detects in less than 5 seconds
    - Having Explosion-Proof Model
    - Having Web-View Control Panel for Applying any settings
    - Live Streaming Camera Output in Local Network (web-View)
  - **Software:** Python (tensorflow, PyQt, http.server, RPi.GPIO, picamera, pyodbc), C++ (opencv), SQL Server
  - **Hardware:** Raspberry Pi, Pi Camera, Custom PCB Board with SIM800, Custom Explosion-Proof Device Design
- 2018 **Qr-Code Reader in Local Network**, (*Licensed by [Mechanic Ab Co.](#)*), [See more](#)
- **Specifications**
    - Loading Part Information from Local Server by Scanning Qr-Code
    - Browsing and editing Part Build Sheet by user (touch screen, keyboard, mouse)
    - always-on mode in industrial and noisy environments
  - **Software:** Python (PyQt, RPi.GPIO, picamera, sqlite3, pyodbc, webbrowser), SQL Server
  - **Hardware:** Raspberry Pi, Pi Camera, Custom Device Design
- 2017 **Online Voting System**, (*Licensed by [Mechanic Ab Co.](#)*), [See more](#)
- **Specifications**
    - Collecting votes from 5 devices with voters face pictures for security reasons
    - Having windows software for check and export statistics and watch collected pictures
    - Saving data in SQL Server and Device local storage if Network is offline
  - **Software:** Python (PyQt, RPi.GPIO, picamera, sqlite3, pyodbc, matplotlib), SQL Server
  - **Hardware:** Raspberry Pi, Pi Camera, Custom PCB Board

2017 **Standalone Roll-Call System**, (*Licensed by Shirin Asal Food Industrial Group*), [See more](#)

○ **Specifications**

- System working without network and internet connection (uses RTC module)
- Updating employees information from USB port
- Auto transferring events (XLS file) when USB Storage plugged in

○ **Software:** Python (Tkinter, Pyserial, RPi.GPIO, openpyxl)

○ **Hardware:** Raspberry Pi, Custom PCB Board with RF01D

2016 **Hypermarket Caller-ID**, (*Self-Study Project*), [See more](#)

○ **Specifications**

- Saving all incoming calls in XLS file
- Showing customers information (name, address, last order, ...) in first ring

○ **Software:** Python (Tkinter, Pyserial, RPi.GPIO, openpyxl)

2016 **Food Reservation System**, (*Self-Study Project*), [See more](#)

○ **Specifications**

- Receiving each day Reservation data from Web Servers automatically
- Supporting unlimited RF-ID cards

○ **Software:** Python (Tkinter, PIL, Pyserial, RPi.GPIO)

○ **Hardware:** Raspberry Pi

## Personal information & Interests

- A fast Learner, able to get involved in any assigned task and company projects.
- Having excellent communication skills to work in an international team and great ability to give attention to details to reach to the best solutions and satisfaction of clients.
- Eager to travel and discover new places, to have the chance to visit the world, meet new people and different cultures.

## Honors & Awards

2016 **3<sup>rd</sup> place in the 6<sup>th</sup> international robotic competition AUTCUP**, *Amirkabir university of technology, Tehran, Iran*, (DE-MINER league), [See more](#)

2013 **Ranked 1<sup>st</sup> amongst graduate students, Electrical Engineering-Electronic Technology**, *Technical University of Isfahan*, [See more](#)

2010 **Ranked 1<sup>st</sup> amongst graduate students, Electrical engineering**, *Tabriz Technical and Vocational University*, [See more](#)

2009 **Ranked 2<sup>nd</sup> in the National Scientific-Practical competition Provincial stage**, *East-Azerbaijan Province*, Electronic Engineering field

## Languages

Azerbaijani Native

Persian Bilingual Proficiency

Turkish Full Professional Proficiency

English Professional Proficiency

## References

\* **Dr. Hossein Aalamshahi**, *Lecturer*, Technical and Vocational University of Iran, Tabriz, Iran

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\* **Abolfazl Sajadi**, *Ph.D. Candidate*, Leiden Institute of Advanced Computer Science (LIACS), Leiden University, Leiden, Netherlands

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\* **Saeid Azizkhah**, *Consultant and Executive of Electronic Systems*, Mechanic Ab Co., Tabriz, Iran

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