

# Seyyed Arya Hassanli

Electrical Engineer - Control

Innovative robotic designer with a great interest in programming who enjoys working in groups and, by the way, has some leadership experiences as well.

✉ a\_hassanli@outlook.com

📍 Tehran, Iran

🌐 hassanli.ir

📞 +98 902 602 302 2

📅 23 June, 1996

🌐 linkedin.com/in/seyyed-arya-hassanli

## EDUCATION

### B.Sc. Electrical Engineering - Control

Iran University of Science and Technology [↗](#)

09/2014 – Present

GPA: 3.42 / 4

- Neural Networks
- Digital Control Systems
- Microprocessors
- Modern Control
- Linear Algebra

### High School Diploma

Allame Helli High School [↗](#)

09/2007 – 06/2014

National Organization for Development of Exceptional Talents

## RESEARCH EXPERIENCES

### Design and Implementation of ROS-based Application on Mobile Robot (2018 – Present)

on Available Mobile Robots in Iran University of Technology Robotic Laboratory

### 2-DOF Reverse Pendulum Identification Using Neural Networks (2018)

In this research, a 2-DOF reverse pendulum has been identified using back propagation algorithm.

### Modern Control Laboratory Equipment Set (2017)

Modular equipment set to design and implement different realization of state equations. Every single board acts as a single zero and pole transfer function which could be connected to other boards. Moreover, these boards have an option to implement state feedback as well as Luenberger state observer.

### Quad-Rotor Team Leader (2015)

Iran University of Science and Technology

### Light Weight Junior Soccer Robot (2012)

HelliBLW Team - National Organization for Development of Exceptional Talents

## PROJECTS

### Project X (2018) [↗](#)

Modular hardware based educational toy for teaching algorithms design in high schools. Each module is a sphere, with six connection around, that can be connected to other modules. Not only students would be able to make their own structures but also they can program it using a simple Windows application without any programming background. In the first version, the following modules are available: color sensing module, temperature and humidity sensing module, movement module, OLED display module, simple I/O module. (Approximated release date: 2019/08)

### Blood Platelet Concentration Measurement Unit (2018)

This device can analyzes up to 96 blood samples simultaneously to determine platelet concentration.

### JSoccer Competition Management Application (2016) [↗](#)

This web application has been designed to help the referee team in Junior Soccer Robotic competitions to manage game results and rankings. Moreover, it can handle matchmaking under Swiss-League rules.

## WORK EXPERIENCE

### Head of Laboratory

Iran University of Science and Technology  
Robotics Research Laboratory [↗](#)

01/2015 – Present

Tehran, Iran

RRL is much more than a typical university lab. We are designing a lifestyle there. It's a kind of transition point for our university students to have growth in lots of their working aspects.

### Technical Manager

Custom Solution of Tomorrow [↗](#)

07/2018 – Present

Tehran, Iran

CST Co. is a technology company which tries to innovate solutions for their customers' problems as well as the society's. As a technical manager, I have a mission to be receptive to the creativity of my ten teammates.

### Data Science Intern

eDevelopment Corporation [↗](#)

10/2016 – 10/2017

eDevelopment Corporation developed a project management application named TeamStrategy. In their upgraded version, the corporation wanted to illustrate the effect of changes in the project plan on project delay for their customers.

### Junior Soccer League Technical Committee Member

RoboCup Asia and Pacific 2018 [↗](#)

09/2018 – Present

Kish Island, Iran

One of the regional competitions of RoboCup is RoboCup Asia and Pacific. This event has been made to help students in the way of learning from others in the world. We will have teams from Iran, Indonesia, Russia, Japan, Australia, Korea and so on. It's a great chance for teams to learn from other youngsters and make new friends.

### Junior Soccer League Co-Chair

IranOpen Robotic Competitions [↗](#)

04/2016 – Present

Tehran, Iran

RoboCup is a worldwide event for school and university students to improve robotics as well as their knowledge in this field. RoboCup have some regional events. One of them is IranOpen. IranOpen is the biggest RoboCup competition in the world in the matter of size. IranOpen have several leagues, and I am the technical committee co-chair of the junior soccer league. We have more than 80 teams who want to compete in this competitions, and we choose about 60 of them for this event every year.

### Junior Demo League Technical Committee Member

IranOpen Robotic Competitions [↗](#)

03/2015 – 04/2015

Tehran, Iran

Junior Demo is another league in IranOpen. In this league, students can develop their idea and create any robot they like. Their robots will be judged in many fields such as creativity, electronics, and design.

## PROJECTS

### Android TV (2016) [↗](#)

Designed for Horand Co.

### Portable LTE Modem (2016) [↗](#)

Designed for MTN Irancell

## ACHIEVEMENTS

### IEEEExtreme 10.0 Programming Competition (2016) [↗](#)

Top 5% in overall ranking (Team Name: uTeam101)

### IEEEExtreme 9.0 Programming Competition (2015) [↗](#)

Top 10% in overall ranking (Team Name: XtremeCoderz37)

### National University Entrance Exam (2014) [↗](#)

Rank 913 among about 223000

### HelliNet National Programming Contest (2013) [↗](#)

3rd Place

### National Olympiad in Informatics (2013) [↗](#)

Rank 42 among about 10000 competitors

## INTERESTS

Robotics

Machine Learning

AI

Neural Networks

Data Science

Natural Language Processing

Fuzzy Control

Intelligent Control

Computer Vision

Intelligent System Identification

## SKILLS

Robotics

ARM Microcontroller Programming

Neural Networks

AVR Microcontroller Programming

Arduino

Logic

C++

Python

VB.NET

PCB Design

FPGA

OrCAD PSpice

MATLAB

Single Board Computers

JavaScript

PHP

jQuery

SQL

HTML

CSS

Microsoft Office

## SOFT SKILLS

Leadership

Creativity

Communication

Collaboration

Calm Demeanor

Training and Teaching

## WORK EXPERIENCE

### Students` Research Consultant

#### Allameh Helli High School [↗](#)

09/2017 – 05/2018

Tehran, Iran

As students` research consultant I was assisting students to find their interests and gain experience in that field.

### Co-Founder

#### Comport Limited [↗](#)

09/2016 – Present

Tehran, Iran

Most of known semiconductor manufacturing companies don't have official reseller in Iran. Comport buys and ships various type of electronic components in two weeks. Up to the time of writing this resume, we have 20 companies as our customers.

## VOLUNTEER EXPERIENCE

### Executive Committee Member

#### Iran University of Science and Technology IEEE Student Branch [↗](#)

04/2016 – 09/2018

I have worked as a volunteer in the university IEEE student branch as executive committee member for about two years.

### Technical Committee Chair

#### IoT Challenge Event [↗](#)

06/2017 – 06/2018

IoT Challenge is an event to help students without any background making IoT devices. We designated the syllabus and developed tasks as a team.

## TEACHING EXPERIENCE

### Teaching Assistant

#### Advanced Mechatronics Course

02/2018 – 06/2018

### ARM Microcontrollers Teacher

#### IEEE IUST Student Branch

10/2015 – 09/2017

### AVR Microcontrollers Teacher

#### IUST Robotic Research Laboratory

10/2015 – 09/2017

### AVR Microcontrollers Teacher

#### University of Tehran

06/2017 – 09/2017

### Web Development Teacher

#### Allameh Tabatabaei High School

09/2014 – 06/2015