

# Ali Naderi Parizi

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<https://github.com/mralinp>

## EXPERIENCE

### **Dadeh Afzar Arman (DAA),** Tehran, Tehran, Iran — *Developer*

November 2020 - January 2022

Developer, system designer, and team lead.

### **System Inteligizer (Sico),** Shiraz, Fars, Iran — *Research and development*

Aug 2019 - DEC 2019

Developing a System on Board (SOB) to deploy machine learning algorithms on IoT devices.

### **System Inteligizer (Sico),** Shiraz, Fars, Iran — *Research and development*

Jul 2018 - Sep 2018

Building a GSM/GPRS module to be embedded inside a company product with the capability of communication-based on mobile networks.

## EDUCATION

### **Iran university of science and technology,** Tehran, Tehran, Iran— *Master of Artificial intelligence.*

Sep 2020 - Present

### **Shiraz university,** Shiraz, Fars, Iran— *Bachelor of Computer engineering*

Sep 2015 - Sep 2020

### **National Organization for Development of Exceptional Talents,** Sirjan, Kerman, Iran— *High School*

Sep 2011 - Sep 2015

## PROJECTS

### **Enhancing object detection runtime using Knowledge Distillation** —

*Assuming FasterRCNN as a basement, the performance is improved using knowledge distillation methods. A novel approach is invented to make it more accurate.*

## SKILLS

Web-development.

Embedded system design.

Computer vision.

Deep learning/ML.

LPIC.

### **Programming languages**

C/C++.

Go,

Rust,

Python.

Java.

JavaScript.

Php

## AWARDS

10th team placed in ACM ICPC 2017, sharif university of technology.

11th team placed in ACM ICPC 2016, sharif university of technology.

4th team placed in universities sports olympiad, 2016-Mashhad Ferdowsi university. (basketball team).

## LANGUAGES

Persian/English

**Detecting Saffron flower cut points**— *Using RefineDet network as a base object detector, detecting cut point of Saffron Flower endpoint and calculating the angle to cut. This project had to be used in a robotic arm that helps farmers with their productions.*

**Developing an SOB**— *Building a system on board with the capability of reading analog video signals and booting a Linux kernel. This board is capable of image processing purposes in IoT devices, such as CCTVs, home security systems, or automated farming systems.*

**GSM/GPRS module**— *Redesigning a GSM/GPRS module to be embedded inside a company product and adding some extra features such as DTMF detector and communicating data over the mobile network, the device has been used in a farming automation IOT device called 'Sirab'.*

**Developing 'pwclan.ir' website(currently down)**—fully programmed back-end and front-end, it was a gaming website.

## Research and publications

**Deep anomaly detection for image processing: A survey**—A survey of deep learning-based anomaly detection techniques used for detection of anomalies in images and videos.

2021-present

**Tumor segmentation and classification using Anomaly methods**—  
Detecting and classification of women Breast Cancer tumors using deep anomaly methods.

2022-present