

# Rambod Rahmani

Artificial Intelligence Engineer

## Contact

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## Languages

Persian (Mother tongue)  
Italian (Mother tongue)  
English (C1)  
French (A2)  
Spanish (A1)

## Places 📍

Iran, Italy, Germany,  
Spain, France, Belgium,  
Holland, Russia.

## Programming ❤️

C, C++, Java, JavaFX,  
Python, Objective-C, .NET  
Framework, R, Latex,  
OpenCV, OpenCL,  
OpenGL, Nvidia CUDA,  
APEX, SQL, PL/SQL,  
MySQL, PHP, CSS,  
JavaScript, jQuery,  
HTML5, XML, JSON,  
Shell Script.

## Software

Vim, xCode, Android  
Studio, Windows Phone  
SDK, Matlab, Visual  
Studio, Eclipse,  
OMNeT++, VirtualBox,  
ISPConfig, MongoDB,  
CassandraDB, Metasploit,  
Wireshark, Git, R Studio,  
Jupyter Notebook,  
OpenMediaVault.

## Summary

I was born in Iran in 1993 and moved to Italy at the age of 7. I started studying programming languages at the age of 15 and began to work as a freelance programmer a couple of years later. At the age of 19 I was admitted to the University of Pisa as a Computer Engineering student. After finishing my bachelor I enrolled for a Master in Artificial Intelligence and Data Engineering. In the past years, beside studying for my examinations, I worked for IT Companies and for the Italian government, I took part in group projects and tried to startup my own ideas. During the academic year 2017/2018, my goals have shifted. I have developed a deep interest in Artificial Intelligence.

## Education

2020 - 2022	<b>Master</b> of Engineering Studies - Artificial Intelligence	University of Pisa, Italy
2013 - 2019	<b>Bachelor</b> of Engineering Studies - Computer Engineering	University of Pisa, Italy
2008 - 2013	<b>High School Diploma</b> 100/100 - Scientific Lyceum	Scientific Lyceum "G. Spano", Italy

## University Projects

The following is a list of university projects which I took part into and of which I am a part during my Bachelor of Engineering and my Master of Engineering studies.

2020	<b>E-Team Squadra Corse</b> <i>Driverless Autonomous Vehicle Development</i> I am currently part of the University of Pisa Formula SAE team. My work focuses on the development of the driverless autonomous vehicle.	University of Pisa
2019	<b>Roborace</b> <i>Autonomous Vehicle Development</i> I was part of the Roborace team of the E. Piaggio Research Center during Roborace championship Season Alpha. My work focused on the driverless electric vehicle DevBot 2.0.	University of Pisa - E. Piaggio Research Center
2015	<b>PHOS Project</b> <i>Software Programmer</i> iOS and Android App development for PHOS Project (Aerospace project at University of Pisa part of the REXUS/BEXUS programme).	University of Pisa

## Work Experience

2020	<b>R.H. Impianti di Rahmani Hamidreza</b> <i>Chief Technical Officer (CTO).</i>	Sassari
2020	<b>R.H. Impianti di Rahmani Hamidreza</b> <i>Siemens TIA Portal V16 Developer</i> Impianto di Sollevamento di Maristella, di Donna Ricca e di Brunestica del Consorzio di Bonifica della Nurra: progettazione, realizzazione e programmazione del sistema di Telegestione basato su PLC Siemens S7-1200, Simatic HMI TP1200 Comfort, Convertitore di frequenza SINAMICS G120X, Misuratore di energia Sentron PAC3220, Interruttori SENTRON 3VA2, moduli SITOP DC UPS e Siemens SCALANCE X208.	Consorzio di Bonifica della Nurra

## Hardware

Arduino, Raspberry Pi,  
Embedded Pi,  
Cubieboard, NVIDIA  
Jetson, Siemens PLC  
S7-1200, Simatic HMI  
TP1200 Comfort,  
SINAMICS G120X,  
Sentron PAC3220,  
SENTRON 3VA2,  
SITOP DC UPS,  
Siemens SCALANCE  
X208.

## Operating Systems 🐧

Windows 10, Mac OS  
X, iOS, Android, Linux  
Debian, Arch Linux,  
Raspbian, OpenWRT,  
Kali Linux, Parrot OS,  
Tails.

## LinkedIn

For full and detailed  
information regarding  
my work experience,  
projects and  
awards please refer to  
my **LinkedIn Profile**:  
[it.linkedin.com/in/  
rambodrahmani](https://it.linkedin.com/in/rambodrahmani).

## GitHub

"Sharing isn't immoral -  
it's a moral imperative.  
Only those blinded by  
greed would refuse to  
let a friend make a  
copy."

**GitHub Profile**:  
[github.com/  
rambodrahmani](https://github.com/rambodrahmani).

2018

### **ClassX S.r.l.**

Pontedera

#### *Java Developer*

I worked as Java developer for the ClassX S.r.l focusing to develop broadcasting software and hardware. I got a glimpse of what it means to work with Modern OpenGL, writing native drivers for custom broadcasting hardware as well as using JNI.

2018

### **ClassX S.r.l.**

Pontedera

#### *Internship*

I spent two months at ClassX S.r.l as part of my academic career as a Computer Science student at University of Pisa. I developed an Android Application used to receive SMS messages and forward them to the company software for broadcasting purposes.

2014 - 2015

### **Boccaccio Club**

Pisa, Italy

#### *Software Programmer*

Boccaccio Club iOS and Android App Development. Wireless Network Routing with Multiple Access Points: internet access is guaranteed only when the Boccaccio Club App is installed on your device. In order to achieve such an advanced authentication method I developed a custom captive portal named DYNAMO.

2013

### **Ciclope: Raspberry Pi based Humanoid**

Rambod Rahmani, Giacomo Taormina

#### *Software Development & Hardware Assembly*

Ciclope is a Humanoid robot with the ability to see and analyse the external world using a camera. Its structure has up to 17 degrees of freedom.

It is a one-of-a-kind combination of Software and Hardware: it combines the latest OpenCV libraries and the RPi on board camera. I coded basic functionalities such as object-tracking and face-recognition, and its control interface using Python, C and C++.

2013

### **Ambulatory Proctology Office**

Sardinia, Italy

#### *Software Programmer*

I developed a software named "Anamnesi" (Objective-C - MAC OS X) used to manage patients medical histories. Each patient is identified using his fiscal code and the ambulatory doctors are able to access all medical histories stored on a server wherever they are.

2012

### **MALIBU Village**

Canet-Plage, Languedoc-Roussillon, France

#### *Internship*

I worked as IT Support at MALIBU Village as part of the "Leonardo Project" internship. This was the first time I had a hands-on experience with Ubiquiti Picostations.

2010 - 2012

### **Italian Navy**

San Giorgio-class amphibious transport dock, Italy

#### *Software Programmer*

I coded a set of three software named **A.S.C (Acceptance, Sorting and Control)** for the Italian Navy. What started as a late night project to improve my coding skills ended up changing my life for ever when I was still a high school student. During more than two years of daily work I translated a NATO publication made in 2008 into machine language. Thanks to A.S.C. operators do not have to worry anymore about formatting and standardizing their messages: the software checks every line before sending the message and tells the operator how to correct any mistake.

## 3D Printing

- Geeetech Prusa i3 Pro B
- Anycubic I3 Mega
- Creality Ender 3 Pro
- Anycubic Photon

## OpenWRT

As a member of EigenLab, a local hacklab in Pisa, I was involved in installing and configuring the OpenWRT Distribution on embedded devices that we used to build EigenNet: a local **Wireless Mesh Network** in the city of Pisa.

## Bitcoin

I have been involved in Bitcoins as far as it regards Bitcoin Mining (CGMiner, CPUMiner, USB Miners), Mining Pools, Bitcoin Wallet and Full Bitcoin Node Configuration (Bitcoin Core).

Last updated: February 22, 2021

## Awards, Scholarships and Certificates

- 2013 - 2016 **DSU Scholarship** DSU of Tuscany  
DSU Scholarship by DSU of Tuscany supporting my Bachelor of Engineering Studies.
- 2013 - 2016 **Italian Ministry of Education, University and Research Scholarship** MIUR  
Excellence Scholarship by MIUR supporting my Bachelor of Engineering Studies.
- 2012 **Intel Excellence in Computer Science** Intel Corporation  
Awarded to Rambod Rahmani for developing the A.S.C. Software.
- 2012 **National Excellence Registry** Italian Ministry of Education, University and Research  
Awarded to Rambod Rahmani for developing the A.S.C. Software.
- 2012 **Certificate of Merit** Scientific Lyceum "G. Spano", Italy  
Awarded to Rambod Rahmani for developing the A.S.C. Software.
- 2012 **Europass Mobility Nr. IT/00/2012/859/10**  
Gymnasium Lyceum "D. A. Azuni" and ALFMED (Académie de Langues France Méditerranée.).
- 2011 **A.S.C. Software** Italian Navy - San Giorgio-class Amphibious Transport Dock  
Software Development Certificate by the Italian Navy for developing the A.S.C. Software.

## Patents

- 2015 **DYNAMO** Ministry of Economic Development (Italy) - Request number: 102015000072776  
Captive portal software which allows for Wi-Fi Access Points to be configured so as to provide internet access only to those devices where a required iOS/Android App is installed. Otherwise the device only has internet access as far as it is needed to install the required App. I developed this custom Captive Portal in order to achieve the advanced authentication method required by Boccaccio Club and thanks to their financial support I was able to patent DYNAMO.

## Events

- May 2015 **International World Wide Web Conference 2015** Florence, Italy  
Research, development, and applications of the topics related to the Web.
- May 2015 **HEUREKA 2015** Berlin, Germany  
One of the main founders conferences in the German--speaking world.
- May 2015 **Berlin Talent Summit 2015** Berlin, Germany  
Europe's leading recruiting conference for high-potentials.
- July 2012 **9th EXPO-SCIENCES EUROPE 2012 (ESE)** Tula, Russia  
9th MILSET Expo-Sciences Europe (ESE 2012) held in Tula, Russia.
- April 2012 **I Giovani E Le Scienze 2012** Federation of Scientific and Technical Associations  
The A.S.C. Software was selected as one of the best 30 in the whole country.

## Interests

**Professional:** Startup, Computer Science, Geolocation Systems, Hardware, Smartphones, iOS, Android, Embedded systems, Web development, App development, Software design, Networking, Linux, Hacking, Penetration Testing, Computational Complexity, Artificial Intelligence, Artificial Neural Networks, Computer Vision.

**Personal:** Running, Chess, Cosmology, Astronomical observations, Quantum Computer Science, Physics and Math.