



Mazen
Hassani

DATE OF BIRTH:
1993

CONTACT

Nationality: Syrian

Gender: Male



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WORK EXPERIENCE

06/2019 - CURRENT

University teaching aide

Damascus University, Tomouh

Teaching an Introduction to Robotics for 1st year students, starting from simple mechanisms to build simple robot system with actuators and sensors, each course ended with a small competition, I've covered approximately 200 students with 125 hours of training.

2019 - CURRENT - Damascus, Syria

Founder

Print it!

I've started a small 3D printing business.

08/2017 - 12/2017

University teaching assistant

Damascus University, Tomouh

A Crash Course presented to explain computer systems from A to Z, from building a complete system using elementary blocks to explaining the advanced CPUs architectures.

06/2018 - 12/2018

Robotics engineer

Subh Engineering

At [SUBH](http://subhengineering.com/), I was responsible for Building a surveying robot to take measurements in a contraction field comparing it with the CAD maps and helping in QA in civil engineering.

- 1- Responsible for choosing and operating the controllers and motors.
- 2- Programming the Stabilizer system.
- 3- Building a map using Lidar.

<http://subhengineering.com/>

10/2017 - 10/2018

Website Administrator and Manager

- shaghlni.com technical represent in meetings with companies, collecting feedback and apply it to the website.
- Site Administration and Maintenance.

08/2016 - 12/2017

University teaching assistant

Damascus University

FPGA lab for the Computer Organization and Architecture course.

12/2013 - 03/2014

Teaching professional

ACM ICPC Damascus University

C++ and Algorithms course for ACM ICPC contests.

EDUCATION AND TRAINING

2020 - CURRENT Ministry of Higher Education And Scientific Research

Master's in Web Science

Syrian Private University

<https://www.svuonline.org/>

2020 - Syria

Bachelor in Control and Automation Engineering

Damascus University

<http://www.damascusuniversity.edu.sy/>

PROJECTS

Projects

- (2019) **WRO 2019 Advanced Surveying Robot** (team coach)
- (2018) **WRO 2018 Advanced Tetris Playing Robot** : [Project Demo](#)
- (2018) **EDC Robot** : [Project Demo](#) Building LIDAR system from scratch and designing an Omni-Wheels robot using Tetrix hardware controlled by Raspberry Pi and Arduino, Pi Camera for vision and LIDAR as a radar for mapping and positioning. Also a PS3 joystick is used for controlling the robot.
- (2017) **Decentralized Task Assignment among Robotics Swarm (Graduation Project)**
- (2016) AVR micro-controllers programmer (Jasmin City)
- (2015) **Emotionally responsive Robot**
- Using LabVIEW software
- (2014) **IoT home automation**
- Writing LUA Script to create a simple server-client system
- Using Wi-Fi transceiver to control hardware pins status
- (2013) **Kinect controlled RC car**
- Writing C# application to communicate with Kinect Sensor
- Using OpenCV for image processing
- (2012) Heart rate measurement from finger tip
- Programming PIC micro-controllers

Projects links and docs on [Github](#)

HONOURS AND AWARDS

Honours and awards

- **WRO (World Robotics Olympiad)** Participant and Coach in WRO (World Robotics Olympiad); one of the biggest robotics competitions worldwide.
- 2019: 9th Place in WRO world finals in Thailand (ARC category).
- 2018: First place in the national contest, (in Advanced Robotics Challenge ARC category).
- 2018: Third place in the national contest, (in Open Senior category).
- **EDC (Engineering Design Challenge)** regional robotics contest held at the American University of Beirut (AUB).
- First place in the 2017 EDC and Best design award from [CNC LAB](#).
- Coach in the EDC 2018 (in 04/02/2019)
- **Tamyoz contest for graduation projects (2017)** First Place for the best graduation project in 2017.
- **ACM ICPC (Competitive Programming Contests)** Participant in ACM-ICPC; an international collegiate programming contest based on solving programming problems using algorithms and data structures, mainly use C++ in programming contests.
- 15th place in SCPC (Syrian Collegiate Programming Contest) in 2014.
- Participation in the 18th AL-BASSEL Fair for invention and innovation.

LANGUAGE SKILLS

English

Listening
C2

Reading
C2

Spoken
production
C2

Spoken
interaction
C2

Writing
C1

ORGANISATIONAL SKILLS

Team member

- Good organizational skills gained as scientific team leader, responsible for a team of 7 people introducing HAMAK specializations every year at [Compass](#) for 3 years).
- Also responsible for a team of 12 people in Shaghlni Event held at Sheraton Hotel (2/2/2018).

COMMUNICATION AND INTERPERSONAL SKILLS

Social

- good communication skills gained through my experience in teaching.
- excellent contact skills with companies and schools gained through my experience in marketing for [Shaghlni](#) and [Compass](#).

JOB-RELATED SKILLS

Computer System Programmer

- C, C++, JAVA, MATLAB, LabVIEW, MySQL.
- AVR and ARM-Based Microcontrollers / FPGA (VHDL).
- Printed Circuit Board (PCB) Design using Autodesk EAGLE.
- Linux Administration
- Web Development: HTML, CSS, PHP, JavaScript
- Robotics and Control Systems.