

Mihai ANCA

Robotics Student | Software Engineer

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Robotics student at the University of the West of England with software and electrical expertise. I am looking to develop my technical skills in general robotics, machine learning and intelligence. I show my passion for technology through various robotics projects and internships I do besides university and I am keen to assimilate any new skills I come across.

SKILLS

Programming	Python, C/C++, JavaScript, PHP, HTML, SQL
Tools and Libraries	Keras, OpenCV, Eagle, Docker, Ansible, Microsoft Office
Frameworks and Others	PCB design and soldering, ROS, MySQL, InfluxDB, ReactJS, MongoDB
Operating Systems	Linux Ubuntu, Windows 10, Linux CentOS, Linux Redhat

PROFESSIONAL EXPERIENCE

August 2017 Present	Software Engineer, XOR SYSTEMS, Bristol <ul style="list-style-type: none">> Development and implementation of a 24/7 testing system> Implementation, analysis and delivery of bug fixes> Monitoring of a multi-user platform> Development and implementation of an audio message-based system <div>Python JavaScript MySQL Linux Ubuntu</div>
June 2017 July 2017	Research assistant, BRISTOL ROBOTICS LAB, Bristol <p>Participated to a university organised conference, where we presented the work done.</p> <ul style="list-style-type: none">> Development and implementation of a Convolution Neural Network> Development of a speech transcription algorithm using LSTM Neural Network> Object detection using OpenCV> Image segmentation using K-means clustering <div>Python Keras OpenCV Linux Ubuntu</div>
Sept 2016 May 2017	Peer Assisted Learning Leader, UNIVERSITY OF THE WEST OF ENGLAND, Bristol <ul style="list-style-type: none">> Planning of sessions> Writing reflective logs> Providing support and promoting good study habits among students> Demonstrating good possession of qualities such as reliability, credibility, commitment, honesty and approach-ability.> Facilitating group discussions in PAL sessions using interactive learning strategies. <div>Communication Team working Problem Solving Time management</div>

PROJECTS

FINAL YEAR PROJECT

SEPT 2018 - APR 2019

University of the West of England

My idea was to build a control system for a RC car. At first, the algorithm would learn how to drive the car based on a supervised learning process, the data being collected from multiple drivers. Secondly, the control system would evolve using a reinforced learning algorithm, improving the accuracy of each decision over time.

Python Keras Eagle PCB design and soldering

MEKACUP COMPETITION

DEC 2018 - PRESENT

Reach Robotics

I am the leader of the team representing UWE at this competition. The goal is to modify a Mekamon robot to be able to walk across various terrain types and map the surroundings.

Python ROS Keras Sensor Fusion

INTERPERSONAL SKILLS

- › Team working - through various team-based projects
- › Problem solving - developed during the year in industry
- › Proactive - acquired when participating in after-school activities
- › Self-reliant - while self-studying and conducting research

LANGUAGES

- › English - full professional proficiency
- › Romanian - native

EDUCATION

2015 - 2019 University of the West of England - Robotics BEng(Hons)

- › Dean's award for first and second year
- › Expecting a first degree for my final year

During the various modules undertaken while studying Robotics, I have mainly improved my skills in the following areas:

- › C programming
- › Electronics, PCB design and soldering
- › Machine Vision
- › Machine Learning (Neural Networks, Genetic Algorithm, Cellular Automaton, etc.)
- › Mathematics

2011 - 2015 National College 'Gh. Sincai' Romania

- › Romanian Baccalaureate Diploma: Mathematics - 10/10 and Physics - 9.5/10
- › Curriculum also included Computer Science and English

INTERESTS

I am an enthusiastic and hard worker, but in my spare time, I enjoy cycling and listening or reading fantasy books. I like to ski during winter, while during summer I tend to go swimming or practice my archery skill. I am also passionate about games, and I usually play them until I figure out all the mechanics involved. I am always interested in trying new things, therefore last year I started experimenting with cooking, managing to bake my own loaf of bread. I never refuse a good challenge, and whenever I have set myself a goal, I dedicate all my spare time and energy to seeing that goal reached.

REFERENCES

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