Hussein Kobeisi

Specialized Computer & Communications Engineer

In my final year of engineering I took up learning Machine Learning, and applied Reinforcement Learning n my Final Project to achieve a control for drones in flight. I've grown to passionate about the field of ML and Data Engineering, and am actively looking for opportunities to delve deeper into the field in a professional setting.

✉ husseinakobeisi@gmail.com   📱 +961 71 368 931   📍 Beirut, Lebanon   🗔 hkob25.github.io/Portfolio/

EDUCATION

Electrical Engineering
Lebanese University – Faculty of Engineering

2021 - 09/2023   *Rank: top 25%*

Courses
- Data analysis, Graph theory, Optimization research

Engineering Common Trunk
Lebanese University – Faculty of Engineering

2018 - 2021   *Mention : Very Good*

Courses
- C/C++

PERSONAL PROJECTS

--Reinforcement Learning for Drone Swarm Control
- Aims to achieve decentralized control of autonomous drones
- Implements RL using PPO algorithm
- Creation of AI bot to provide training guidance for agent drones
- Training performed in incremental stages; training simple models then re-using them to train more complex ones
- Simulated in Unity Engine to simulate physics and provide visual feedback

--Simulation of flocking behavior
- Implementing an algorithm for navigation of large robotic swarms

--Garage control system
- Data analysis, Graph theory, Optimization research

--Arduino Projects
- Remote controlled RC car
- IR remote signal repeater
- Design, build and programming of sumo robots
- Design, build and programming of robots for specific tasks

WORK EXPERIENCE

Mobile Developement
eSchool

Achievements/Tasks
- Built a finished app from scratch within first month of employement

Web Developement Internship
Vanrise

Tasks
- Learning about MVC
- Building frontend(AngularJS) and backend(ASP.Net)

COMPUTER SKILLS

Skill	Level
Python	●●●○○
Reinforcement Learning	●●●○○
C/C++	●●●●○
C#	●●●●●
TensorFlow	●●●○○

OTHER SKILLS

Teamwork and cooperation

Self-learning and quick-learning

Problem solving

ACHIEVEMENTS

Ranking in Robots Competition:

- 2nd place in FLL Lebanese Robotics Competition

- 4th place in FLL Arab Robotics Competition

Arduino Robots:

- Science projects based on arduino

- Sumo robotics competition

LANGUAGES

Arabic
Native or Bilingual Proficiency

English
Full Professional Proficiency

INTERESTS

Coding   Microcontrollers   Ai   Reading

Working out   Art projects