

# Kouider Chadli

☎ +353 87 771 3267 | @ k.chadli1@universityofgalway.ie | 🔗 LinkedIn | 🐙 GitHub | 📍 Galway, Ireland

## EDUCATION

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**University of Galway**  
*Ph.D. in Computer Science;*

Galway, Ireland  
*Sep 2023 – Present*

**University of Technology Malaysia(UTM)**  
*M.Eng. Mechatronics and Automatic Control; GPA: 3.95/4.00*

Johor Bahru, Malaysia  
*Feb 2022 – Aug 2023*

**Relevant coursework:** Software Engineering, Artificial Intelligence and its applications, Deep learning, Computer Vision

**Institute of Electrical and Electronic Engineering(IGEE ex-INELEC)**  
*M.Sc. in Automation Engineering; GPA: 15.48/20.00*

Boumerdès, Algeria  
*Sep 2019 – Sep 2021*

*B.Sc. in Electrical and Electronics Engineering; GPA: 15.96/20.00*

*Sep 2016 – July 2019*

## SKILLS

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**Programming Languages and Web Framework:** C/C++, Java, Python, CUDA, SQL, MATLAB, VHDL, Arduino, Flask, Django

**Machine Learning Libraries:** Numpy, Panda, OpenCV, TensorFlow, keras, PyTorch, scikit-learn

**Technologies and Tools:** Git, Docker, Jenkins, Kubernetes, DVC, Azure ML

**Software Engineering:** Designing and implementing production services, full-stack applications, and tools and libraries across various disciplines.

**AI Research and Design:** Researching and designing artificial intelligence systems using machine learning models, such as neural networks, as well as probabilistic models and classic AI approaches.

## RESEARCH EXPERIENCE

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**University of Technology Malaysia(UTM)**  
*Graduate Researcher*

Johor Bahru, Malaysia  
*Oct 2022 – July 2023*

- Performed groundbreaking research to create a real-time human detection system tailored for search and rescue missions through the integration of AI technology.
- Developed and trained the model from the ground up, attaining cutting-edge accuracy in identifying human targets, showcasing its viability for tangible applications and meaningful real-world outcomes.
- Formulated and implemented an innovative, lightweight Convolutional Neural Network (CNN) model specifically designed for human detection, optimized for efficient inferencing on a microcontroller embedded within a drone.
- Enhanced deployment efficiency by compressing the model using TensorFlow Lite and converting its data from floating points to 8 bits through post-training quantization, thereby ensuring optimal real-time performance.

**Institute of Electrical and Electronic Engineering**  
*Graduate Researcher*

Boumerdès, Algeria  
*Jan 2021 – Sep 2021*

- Conducted research to develop a motion planning algorithm for a quadrotor in cluttered environments.
- Devised a motion planning strategy by synergizing the Rapidly Exploring Random Tree (RRT) algorithm with the Direct Collocation (DC) method.
- Engineered a cutting-edge collision-free motion planning algorithm, leveraging funnel approximation through sampling and simulation-based falsification techniques, specifically tailored for quadrotors.
- Executed the implementation and thorough evaluation of the algorithm within a 6-Degree-of-Freedom (6-DOF) planar model using Matlab, thereby showcasing its practicality for real-world applications and underscoring its potential for significant real-world impact.

## HOBBIES

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Learning new Languages, Reading Books, Coding, Traveling