

ADRIAN LLOPART MAURIN

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<https://adrianllopart.github.io/portfolio>



Product-oriented AI engineer with a proven track record of developing and implementing cutting-edge deep learning models on-cloud and on-device. Passionate about the intersection between AI and Robotics.

PROFESSIONAL EXPERIENCE

CEO / co-Founder

MederiAI

Copenhagen, Denmark

Feb 2024 - Present

Applying Deep Learning models for fast and accurate anomaly and disease detection in the gastrointestinal tract using footage from endoscopic capsules. Leading a team of full-stack engineers and overseeing the development of the product: UI/UX, frontend, backend, AWS infrastructure and AI pipelines.

Senior Machine Learning Engineer

Jabra GN

Copenhagen, Denmark

Aug 2024 - Present

Building, training and evaluating multimodal deep learning models and pipelines for videobars for meeting rooms. Currently working on:

- Building the MLOps stack from scratch.
- Multimodal real-time on-device pipelines for visual tracking and speech diarization.
- Synthetic multimodal data generation and annotation

Senior Machine Learning Researcher

Veo Technologies

Copenhagen, Denmark

Jan 2021 - May 2024

Development of production-ready deep learning models to be run on cloud and edge devices. This includes data collection, annotation and processing; model architecting, training, evaluation and optimization for:

- Action recognition and localization.
- 2D/3D Player and ball detection and tracking, from monocular images.
- Advanced match analytics using AI

Senior Artificial Intelligence Algorithms Developer

Huawei

London, United Kingdom

Jan 2019 - Jan 2021

Re-implementation and improvement of state-of-the-art methods for Deep Learning in Computer Vision tasks in Tensorflow and Pytorch. These include:

- 3D Human Keypoint Estimation from monocular images
- Object Recognition, Detection and Segmentation.
- Human Action Recognition and Detection.
- Supervision of Intern projects

Supervisor of Master Thesis

Technical University of Denmark (DTU)

Lyngby, Denmark

Feb 2017/18 - Jul 2017/18

Supervised several master Thesis, some of which were presented at international conferences:

- Task constrained motion planning for robot manipulators.
- Realtime motion planning for industrial robot arm in dynamic environment.
- Building a Revolute Joint Module for the Fable Robotics System (collab. with ShapeRobotics).
- Obstacle detection and avoidance for indoor mobile robots using Recurrent Neural Networks.
- Transfer learning between Convolutional Neural Networks.

PUBLICATIONS

- **Liftformer: 3D human pose estimation using attention models,** ArXiv preprint: *arXiv:2009.00348*, September 2020, UK.
- **Online Semantic Segmentation and Manipulation of Objects in Task Intelligence for Service Robots**, International Conference on Control, Automation, Robotics and Vision (ICARCV), November 18, 2018, Singapore.
- **Semantic mapping and object detection for indoor mobile robots**, Industrial Conference on Robotics and Computer Vision (ICRCV), November 17, 2018, Thailand.
- **Bayesian Convolutional Neural Networks with Variational Inference**, ArXiv preprint: *arXiv:1806.05978v5*, November 14, 2018, Denmark.
- **Outlook for navigation-comparing human performance with a robotic solution**, International Conference on Maritime Autonomous Surface Ships (ICMASS), November 8, 2018, South Korea.
- **A Rule-Based Approach for Constrained Motion Control of a Teleoperated Robot Arm in a Dynamic Environment**, The International Conference on Robotics Systems and Automation Engineering (RSAE), October 6, 2018, Spain.
- **Autonomous 3D model generation of unknown objects for dual-manipulator humanoid robots**, IEEE 5th International Conference on Robot Intelligence Technology and Applications (RITA), Dec 14, 2017, South Korea.
- **Generalized Framework for the Parallel Semantic Segmentation of Multiple Objects and Posterior Manipulation**, IEEE International Conference on Robotics and Biomimetics (ROBIO), Dec 6, 2017, Macao.
- **Door and Cabinet Recognition Using Convolutional Neural Nets and Real-time Method Fusion for Handle Detection and Grasping**, IEEE 3rd International Conference on Control, Automation and Robotics (ICCAR), Apr 22, 2017, Japan.

EDUCATION

PhD Student on Robotics and Artificial Intelligence

Technical University of Denmark (DTU)

Automation and Control (AUT) Group

Supervisors: Ole Ravn & Nils A. Andersen

Lyngby, Denmark

Dec 2015 - Dec 2018

PhD External stay

Korea Advanced Institute of Science and Technology (KAIST)

Robot Intelligence and Technology (RIT) Lab

Supervisor: Jong-Hwan Kim

Daejeon, South Korea

Jan 2017 - Sept 2017

Master thesis: Teleoperation of Miniaturized Humanoid Robots

University of Tokyo (TU)

User Interface Research Group (Igarashi Lab)

Supervisors: Takeo Igarashi & Daisuke Sakamoto

Tokyo, Japan

April 2015 - Aug 2015

Master of Science in Automation and Robotics

Technical University of Denmark (DTU) - Double degree programme

Study line: Automation and Robotics

Lyngby, Denmark

Sept 2013 - Aug 2015

Bachelor and Master of Science in Industrial Engineering

Polytechnical University of Catalonia (UPC)

Study line: Automation and Robotics

Barcelona, Spain

Sept 2009 - Aug 2013

TECHNICAL SKILLS

AI	Pytorch, Tensorflow, TensorRT, Docker, AWS (ECR, EC2, S3 ...) Kubernetes, NeptuneAI, MLFlow, Encord, HuggingFace
Robotics	OpenCV, ROS, PCL, MoveIt, Open3D
Others	Linux, Python, C/C++, Gstreamer, Github, Elastic, Notion

LINGUISTIC SKILLS

English	Full Professional Proficiency (C2)
Spanish	Native (C2)
Catalan	Native (C2)
German	Conversational (B2)
Danish	Beginner (A2)