

Gautier Arcin

ROBOTICS · FULLSTACK ENGINEER

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Experiences

Research Engineer

Toulouse, France

INSTITUTE FOR RESEARCH IN COMPUTER SCIENCE OF TOULOUSE

May 2021 - May 2022

- Integration of a pronunciation error detection module in the backend of a website for the ALAIA laboratory.
 - Realization of an application for IOS tablet, allowing the ENT of Toulouse to measure an intelligibility score.
 - Maintainer of the Gitlab of the SAMOVA team.
- React-Native (Expo, Redux, Axios), Typescript, Python (Flask), Docker, Git.

Study Engineer

Toulouse, France

INSTITUTE FOR RESEARCH IN COMPUTER SCIENCE OF TOULOUSE

Nov. 2020 - May 2021

- Implementation of a naive fusion of audio/video modalities. Very significant gain in accuracy compared to single modalities.
 - Realization of a front-end website for the demonstration of the work done.
- Python (Tensorflow, Keras), OpenCv, Prodigy, Javascript (ES6, React, Material UI).

Space Robotics Apprentice Engineer

Toulouse, France

MAGELLIUM

Sept. 2019 - Aug. 2020

- Integrator in the ESA H2020 Pulsar project in an agile team of 5 engineers.
 - Integration of a software component to monitor the state and geometry of the assembly via a connected graph.
 - Integration of Attitude and Orbit Control Systems on software simulator, allowing to compensate the perturbations of the satellite
- C++ (C+17, Eigen, BGL), ROS, Rviz, Webots, Simulink, Gitlab, Docker, Blender.

R&D Robotics Engineer Trainee

Mondragon, Spain

MONDRAGON GOI ESKOLA POLITEKNIKOA

Apr. 2019 - July 2019

- Creation of a deep learning model and a semi-analytical model to characterize the dynamics of a Kuka KR3 540.
 - Reverse engineering of the Kuka to recover its dynamic parameters and create an analytical model.
 - Related publication featured in *The International Journal of Advanced Manufacturing Technology*.
- Keras, Tensorflow, C++ (ROS), Python, Matlab (Peter Corke's toolbox).

Education

UPSSITECH - Université Toulouse III Paul Sabatier

Toulouse, France

ENGINEERING DEGREE IN ROBOTIC & INTERACTIVE SYSTEMS

2017 - 2020

- Double major in computer science and automation.
- Equivalent to a master degree.

Papers

- 22 oct. **Torque-based methodology and experimental implementation for industrial robot standby pose optimization**, *The International Journal of Advanced Manufacturing Technology*, Issue 7-8/2020

Skills

Robotics	MGI/MGD, Path-Planning, linear algebra, 3D geometry, MoveIt, OpenCV, ROS, Gazebo, Webots, Simulink
Machine Learning	Tensorflow, Keras, Numpy, Scikit-learn, Panda
Back-end	Flask, REST API
Front-end	React, React-native (expo), Next, Redux, Material UI, HTML5, CSS
Programming	Javascript (ES6), Python, C, Modern C++, LaTeX
DevOps	Linux, Docker, Git, Gitlab
Langages	French (native speaker), English (confirmed, TOEIC 945/990), Spanish (intermediary)
Project management	Gantt, Scrum, V model
Soft-skills	Curious, Self-taught, Sociable

Center of interest

Reading (Favorite authors : A. Camus, R. Sapolsky, S. Harris)

Guitar (12 years of practice)

Running

3D Printing