

Adrián Campos

120 Grove Road, 12 Imperial House, London, E3 5TN

07561 084146

adricampos10@gmail.com

<http://notjustrobotics.com>

SUMMARY

Enthusiastic engineer with real-world experience. Completed company projects, including Autonomous Guides Vehicles (AGV) projects and computer vision research jobs.
Experience working in agile environments.

COMPUTER SKILLS

Languages

- C++, Java, Python.

Software

- Linux, ROS, Gazebo, Rviz, Git, Matlab.

EXPERIENCE

AGV Software Engineer

11/2020-Present

Mo-Sys Engineering, R&D

Responsibilities:

- Develop localisation and navigation software for AGV's.
- Conduct real time demos with potential clients.
- Improving safety and regulatory compliance to incorporate industry best practices.
- Plan and manage time, tasks, milestones and resources to meet project objectives.
- Work with Mechanical Engineering teams on bringing up new hardware.

Skills:

- Real-world experience with autonomous systems (AGV).
- Sensor fusion (cameras, ultrasonic, laser, inertial sensors).
- Robot localisation.
- Global and local planning developed in ROS.
- Dynamic and Kinematic modelling.
- Motor controller configurations.
- Outdoor GPS navigation with centimeter precision using Real-time kinematic positioning (RTK) via Base-Rover Configuration over Radio or via NTRIP caster.
- Indoor StarTracker navigation.
- Automation for process industries (docking stations, actuators, pallets, etc.).

- Software development in embedded systems as Arduino, ESP32, STM32.
- Rosserial protocol.

Kitchen Porter

08/2019-05/2020

Homeslice

Responsibilities:

- Worked in a fast-paced environment to have all the work utensils ready and clean and to maintain the rhythm of kitchen work even in times of high capacity and pressure.
- Developed crucial team-working skills.

Graduate Researcher

01/2019-07/2019

University of Alcalá

Responsibilities:

- Conducted research on "Detection and identification of movements of a robot using 3D point cloud" on NASA Valkyrie robot for Alcalá University.
- Solved problems and worked independently with innovative tools.

Skills:

- C++, ROS.
- Use of different filters from Point Cloud Library (PCL):
 - Search structures (Octree, KdTree).
 - Segmentation algorithms (segmentation by color, segmentation from normals, segmentation by distance, Euclidian cluster extraction, Region growing).
 - Sample consensus methods (RANSAC).
- Object tracking (openCV).

Junior Developer

12/2017-01/2019

Everis, Treasury & Capital Markets

Responsibilities:

- Incident solution for Calypso platform.
- Conduct software testing with unit test (Mockito).

Tasks:

- Developed in Java.
- Use of Calypso platform.
- Junit.

EDUCATION

University of Alcalá

2013-2019

Madrid, Spain

- Bachelor's degree in Computer Engineering.