STEVEDAN OGOCHUKWU OMODO-LOR OMODIA

Robotic Engineer

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EXPERIENCE

Robotic Engineer
Unmanned Life

📅 June 2022 – Ongoing 📍 Barcelona, Spain

- Developing autonomous drone solutions for surveillance applications.
- My responsibilities include aspects from software development for drone control, localization and Behavior Tree-based mission planning, mechanical design of drone components, and leading the hardware integration that involved integration of Nvidia Jetson for onboard processing on multiple drones.
- **Nvidia Jetson**, **ROS**, **C++**, **Python**, **Computer Vision**, **Controllers**, **Localization**

Research Assistant
Mobile robotic lab at IRI - Institut de Robòtica i Informàtica Industrial, CSIC-UPC

📅 August 2021 – December 2021 📍 Barcelona, Spain

- Worked on control algorithms for grape picking using the Tiago robot under Prof. Alberto Sanfeliu
- **ROS**, **CPP**, **Computer Vision**, **Visual Servoing**

Research Assitant
Perception and manipulation lab at IRI - Institut de Robòtica i Informàtica Industrial, CSIC-UPC

📅 November 2020 – August 2021 📍 Barcelona, Spain

- Conducted research on manipulation for cloth grasping with the Tiago robot under Prof. Júlia Borràs Sol
- **ROS**, **CPP**, **Force control**, **Robot grasping**, **Tiago Robot**

Research Assitant
Robotic research group KU Leuven

📅 June 2020 – August 2020 📍 Leuven, Belgium

- Worked on upgrading the PR2 robots arm to use EtherCat Compliant drivers under Prof. Dr. Ir. Herman Bruyninckx. The integration was done using *SOEM library*. The end goal was to allow force and torque control of the robot arm using petrinet-based state machines to allow real-time control.
- **C**, **EtherCat**, **Soem**, **PR2**

Software Engineer
Open Source Projects

📅 January 2020 – Ongoing 📍 Remote

MY LIFE PHILOSOPHY

"I am a graduate in Mechanical Engineering with a Master's in Automatic Control and Robotics, deeply passionate about designing and building autonomous systems. My expertise spans the entire development process—from mechanical design and robotic integration to software programming in languages like C++, Python, and frameworks such as ROS.
Additionally, I have a strong academic background in algorithms for robot control and computer vision. What drives me the most is not just the skills I've acquired but the joy of applying them to solve complex problems."

STRENGTHS

Hard-working   Eye for detail
Motivator & Leader

C++   C   Computer Vision
Github   Robotics   Python
Nvidia Jetson   Drones

LANGUAGES

English   ●●●●●

Catalan   ●●●●●

Spanish   ●●●◑○

EDUCATION

NanoDegree in Flying Car and Autonomous Flight Engineering
Udacity

📅 November 2022 – March 2023

- In my free time, I contribute to open-source projects like Navigation2.
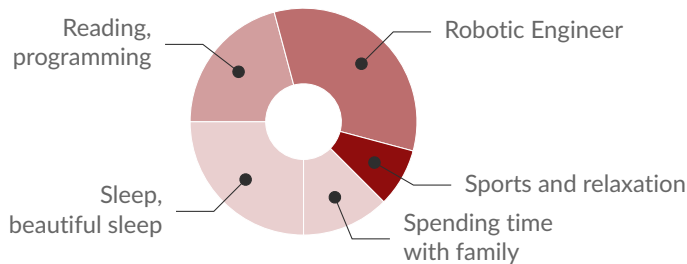- **C**, **CPP**, **Nav2**, **LibDataChannel**, **ROS2**

Mechanical Engineer

Pucra UPC

📅 August 2019 – December 2019 📍 Remote

- Worked on designing part for the space rover for the European rover challenge.
- **Solidworks**, **3d Prining**, **Mechanical Design**

A DAY OF MY LIFE

Reading, programming
Robotic Engineer
Sleep, beautiful sleep
Sports and relaxation
Spending time with family

PUBLICATIONS

📄 Journal Articles

- O. Stevedan Ogochukwu and C. Alberto Sanfeliu, "Control of the tiago robot using pose estimation and position-based visual servoing," 2022. [Online]. Available: https://tinyurl.com/44sjdvj3.
- O. Stevedan Ogochukwu, C. Guillem, and S. David Hernández, "Implementation of a tossing ball robot using reinforcement learning," 2022. [Online]. Available: https://tinyurl.com/2fjdru4t.
- O. Stevedan Ogochukwu, P. Pablo Mañas, and A. Javier Pedrosa, "Head and gaze tracking control for a smart wheelchair with a robot arm," 2022. [Online]. Available: https://tinyurl.com/mr4ur82a.

M.Sc. in automatic control and robotics engineering(Erasmus)

Lund University

📅 January 2022 – July 2022

M.Sc. in automatic control and robotics engineering

Universitat Politècnica de Catalunya ETSEIB

📅 September 2020 – July 2022

B.Sc. in mechanical engineering(Erasmus)

KU Leuven

📅 January 2020 – June 2020

B.Sc. in mechanical engineering

Universitat Politècnica de Catalunya EEBE

📅 Sept 2016 – June 2020

CERTIFICATIONS

Flying Car and Autonomous Flight Engineer

Udacity

📅 March 2023

Certificate Id: KS72MKP2

Advanced C Programming Course

Udemy

📅 July 2020

Certificate Id: UC-2e1abfb3-7956-4e5a-aad8-0914e8cde434

Deep Learning: Advanced Computer Vision (GANs, SSD,+More!)

Udemy

📅 February 2021

Certificate Id: UC-2f27d539-61cd-4b44-ac9d-c905bafc8535

Getting started with WebAssembly & Emscripten

Udemy

📅 April 2020

Certificate Id: UC-247a322a-afbb-4e32-a8aa-a2e7a7650ecf