Oscar Meunier



DOB 01/03/1999 | British & French National

- ✓ oscar.meunierpbs@gmail.com
- 17 Avenue Du Docteur Goujon, 75012, Paris
- @ github.com/oscell

- **J** +44 7823791575 | +33 618831149
- in linkedin.com/in/oscar-meunier-003655181/
- * Portfolio

WORK EXPERIENCE

Internship - Research Assistant

School of Computer Science, University of Glasgow February 2023 - June 2023

Created motion capture system in **Unreal Engine (UE)** for measuring degree of embodiment in **Virtual reality**:

- Setting up the Rokoko SmartSuite II mocap suit and networking with UE.
- Mapping movements from the suit to a character in UE in real time to create a sense of embodiment.
- Developing a method of measuring drift of the suit using C++ with data analysis using Python.
- · Writing Documentation for the system.

This experience developed my skills in VR, C++ and simulation. I also developed a better understanding of how to use sensors effectively.

Software Engineer

GU Orbit

September 2022 - April 2023

Developed satellite image-generating software to create datasets that could be used for latter training:

- Curating appropriate sentinel & Landsat datasets.
- Developing a GAN and diffusion model using Python
- Defining metrics for **benchmarking** different models.

This experience gave me a better understanding of data analysis and visualisation for practical purposes.

Internship - Design Engineer

ZLX Technology

January 2022 - November 2022

I designed an robot using Solidworks, CAD:

- **Selecting** components and designing the ful mechanism in accordance.
- Producing engineering drawings to manufacturers
- **Generating realistic images** and a leaflet to demonstrate use to potential investors.
- Performing FEM Analysis to find structural weaknesses

This experience allowed me to develop my **prototyping abilities** and understand the operations of a **start-up**.

EDUCATIONAL BACKGROUND

MSc, Robotics and Artificial Intelligence

University of Glasgow, UK 2022 - 2023

Dissertation: "Mixed Reality for Remote Operations"

BEng, Mechanical Engineering with Aeronautics

University of Glasgow, UK 2019 - 2022

Dissertation: Drone Biomimicry

PROJECTS

Mixed Reality Operations

Allowing remote operations using Mixed Reality through the HoloLens 2. Using Unity 3D, I integrated robot, a HoloLens device, and simulated models. This project system the visualization and control of a robotic platform.

Competition - ICRA 2023

Manufacturing Robotics Challenge where our team secured 2nd place. The goal was to use a robotic gripper to build a Jenga tower. We used a stereoscopic camera to locate blocks in space and differentiate colours.

Tracking Camera

Built an embedded systems, real-time face-tracking camera using a Raspberry Pi and two motors. This meant creating parts using CAD and 3D printing, developing a user interface with Qt, and making a tracking system using OpenCV and C++.

SKILLS

Languages

French: NativeEnglish: Native

Software & programming

Python, Git/Github, Linux, C#, C++, ROS, Unity 3D, Unreal Engine, CAD, MATLAB, JavaScript, HTML, CSS