Emiel Bos

2 Clarendon House, Bristol, United Kingdom

Education

University of Bristol

Sep. 2019 - Sep. 2021

Masters of Science in Robotics, part-time

Bristol, UK

Inholland, University of Applied Sciences

Sep. 2014 - Sep. 2019

Bachelor's Degree in Aeronautical Engineering, full-time

Delft, NL

Relevant Cretifications

- IELTS (C1)
- KUKA robot programming 1

- Machine learning (Stanford online)
- Systems Engineering (Burge Hughes Walsh)

Experience

National Composites Centre

Feb. 2019 - Present

Associate Research Engineer

Bristol, UK

- MSc dissertation project regarding control protocols for haptic teleoperation with assisted haptic feedback of an industrial 6 degree-of-freedom (DOF) robotic arm (Jun. 2021 - Sep. 2021).
- Project management of two DETI work packages regarding 'AR live verification' and 'Manufacturing control centre'. (Mar. 2021 - Jun. 2021)
- Assisted development on a web-platform used for resource tracking and the system engineering of a new digital division 'DETI' inside the company.

(Sep. 2020 - Mar. 2021)

• Undergraduate dissertation project regarding an augmented reality application for industry. Research was done on how the HoloLens can be used to visualize non-destructive testing (NDT) data which involved C# development. (Feb. 2019 - Sep. 2020)

Airborne

Mar. 2017 - Feb. 2019

Engineering Apprentice

The Hague, NL

- Assisting on the initial development of the on-demand manufacturing portal
- Assisting with the enhancement of the Quality management system (QMS) for better data analysis of NCR's.
- Process engineering of the Automated Tape Layer (ATL) to increase path accuracy
- · Conceptual design of a near zero CTE hybrid composite laminate through a self-written python software tool capable of calculating the laminate properties for differing parameters.
- Administration of work instruction documents for aerospace compliance

Inholland Composites

Sep 2016 - Dec. 2016

Composites Worker

Deflt, NL

- Building a low-speed wind tunnel for AeroLab using composites hand lay-up, composites pre-preg and woodwork.
- production of the Biobench for Schiphol and producing the test samples to ensure the strength of the product.

Technical Skills

Programming: Python, C#, C++ (Arduino), MATLAB, KUKA Robot Language, MQTT, Ubuntu, Docker, Git

Developer Tools: VS Code, Visual Studio, Unity, Blender

Engineering Tools: CATIA, NX Siemens, NASTRAN (FEA), XFOIL

Extracurricular

Study Association

Spring 2020 - Present

V.S.V. Sipke Wynia

Vice President

- Head of external affairs
- Commissioner of Symposium
- Commissioner of Yearbook