Emiel Bos

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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 *Defft, 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**
Vice President *V.S.V. Sipke Wynia*

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