

ANDY BRINKMEYER

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Aeronautical Engineer studying Computer Science with hands-on experience in the aerospace industry. Worked on projects in automation and robotics, digital image processing and full stack web development using Python, HTML, CSS and JavaScript.

WORK EXPERIENCE

AUGUST 2019 – SEPTEMBER 2019

ROBOTICS ENGINEER, AIRBUS HAMBURG, GERMANY

- **Process analysis:** Analysed a process for generating shadow board layouts and developed a new software-backed one based on digital image processing.
- **Python development:** Developed a Python library for extracting contour information from digital images and for generating CAM drawing files based on the extracted data. Created a web application as user interface.
- **User training:** Provided user training and support for the deployment of the software.

AUGUST 2015 – AUGUST 2019

COMPANY SPONSORED STUDENT, AIRBUS HAMBURG, GERMANY

- Worked as a company sponsored student at Airbus Hamburg in different departments. Some of which are:

JANUARY 2019 – JUNE 2019

INNOVATION AND DEVELOPMENT – ASSEMBLY | BACHELOR THESIS

- **System design:** Developed a system for automatic passenger door positioning during the aircraft assembly to reduce manufacturing time.
- **Data integration:** Developed the systems data interfaces for communicating with other manufacturing systems enabling a faster and more reliable assembly process.
- **Engineering:** Designed and dimensioned mechanical and electrical components.
- **Software development:** Developed microcontroller-software in C++ and Python.
- **Manufacturing and testing:** Assembled and successfully tested the prototype.
- **Product demonstration:** Demonstrated the system in front of the management to secure further funding for the project.

JULY 2018 – SEPTEMBER 2018

EQUIPMENT INSTALLATION IMPROVEMENT GERMANY

- **User training:** Led training sessions for the test deployment of smart wearables in manufacturing.
- **Process development:** Developed a concept for a new tool-control process based on the SAP powered Airbus-internal tool distribution system.

FEBRUARY 2018 – MARCH 2018

MANUFACTURING ENGINEERING A350

- **Data management:** Created a Microsoft Access database application to track deviations in aircraft equipment installation processes leading to quicker response times.

EDUCATION

SEPTEMBER 2019 – (EXPECTED) SEPTEMBER 2020

M.SC. COMPUTER SCIENCE, UNIVERSITY COLLEGE LONDON,
UNITED KINGDOM

SEPTEMBER 2018 – DECEMBER 2018

EXCHANGE SEMESTER, UNIVERSITY OF MICHIGAN, USA | *GPA: 3.94*

SEPTEMBER 2015 – AUGUST 2019

B.ENG. AERONAUTICAL ENGINEERING, HAW HAMBURG, GERMANY |
FINAL GRADE: 1.13 (GERMAN GRADING SYSTEM)

VOLUNTEERING

SINCE OCTOBER 2019

TUTOR, LITERACY PIRATES LONDON, UNITED KINGDOM

Tutoring children from disadvantaged backgrounds in reading and writing.

SEPTEMBER 2017 – AUGUST 2019

PUBLIC RELATIONS TEAM, HAW HAMBURG, GERMANY

- Planned the aeronautical engineering departments appearance at fairs.
- Represented the department at fairs.

OCTOBER 2015 – AUGUST 2019

FIRST YEAR TUTOR, HAW HAMBURG, GERMANY

- Prepared induction events and guided first year students through their first days.
 - Provided tutoring about how to successfully study at a university.
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SKILLS

- Advanced Python programming
 - Full stack web development using HTML, JavaScript/TypeScript, CSS and Python frameworks
 - Basic C++ and Java programming
 - Analysis, planning and design of automated manufacturing processes
 - Digital image processing
 - CAD design using Siemens NX
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LANGUAGES

- Fluent English
- Native German
- Basic French