Quintin de Jongh
Mechanical Engineer & Lecturer

Personal Information

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Summary

Organized and ambitious mechanical engineer with a passion for design and advanced manufacturing. Seeking to use process and product design skills to develop cutting-edge machinery and processes. Created a state-of-the-art mechanical polishing process and machine at the University of Cape Town in six months, saving 20% of the budget for machine manufacture. Convened a third-year mechanical engineering course of 120 students, educating on advanced and conventional manufacturing processes.

Skills

SOLIDWORKS 100%

MATLAB 80%

DAQ (Dewesoft and LabVIEW) 70%

MS Office 90%

Research 100%

Report and Academic Writing 100%

Python 65%

Education

MSc IN MECHANICAL ENGINEERING
2021 - 2022

University of Cape Town
Overall Grade: Distinction, A+

BSc IN MECHANICAL ENGINEERING
2016 - 2020

University of Cape Town
Overall Grade: A-

Professional Experience

LECTURER
March 2022 - Present

University of Cape Town
- Convened, examined and prepared course content.
- Increased the overall course grade average by 10%.
- Managed and trained four tutors.

GRADUATE ENGINEER
March 2022 - Present

BMEC Technologies
- Assisted with professional mechanical designs.
- Developed a PDF report generator and associated widget.
- Learned PCB design through the use of CircuitStudio.
- Aided in assembling electro-mechanical controllers.

TEACHING ASSISTANT AND TUTOR
February 2021 - June 2022

University of Cape Town
- Created course content for assessment of a materials selection software.
- Tutored seven engineering courses over a year and a half.
- Assisted with course administration and marking.

Journal Publications

IJAMT
August 2022

doi.org/10.1007/s00170-022-09863-0

JBSMSE
May 2022

doi.org/10.1007/s40430-022-03543-6

IJAMT
May 2021

doi.org/10.1007/s00170-021-07315-9