

# Quintin de Jongh

MSc (Eng) Mechanical

Mechanical Engineer

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Recent Master's Mechanical Engineering graduate from the University of Cape Town working part time for an engineering consulting firm that specializes in full engineering solutions (including software and firmware development, engineered designs, products and electronic systems) and part-time as a lecturer and convener in the Mechanical Engineering department at the University of Cape Town.

Ambitious in nature and able to take criticism, I adapt well to situations and obstacles encountered. Multi-faceted in my array of skills, I like to incorporate concepts outside of engineering to my work. I navigate through life with a perseverant attitude, minimalistic nature, and a focus on efficiency.

## Education

2021 - 2022	University of Cape Town Masters of Science in Mechanical Engineering - MsCEng(MEC) Overall GPA: 80% (Distinction/A+ equivalent) Design and Development of a Blast Polishing Process (Machine and Abrasive Media) for the finishing of Ti-6Al-4V aero-engine components.
2016 - 2020	University of Cape Town Bachelor of Science in Mechanical Engineering - BsCEng(MEC) Overall GPA: 71.23% (A- equivalent) Dean's Merit List for the 2017 Academic Year Certificate of Merit for Exceptional Performance in Computer Science Course Final Year Project Grade: 83% (A+ equivalent) * See attached transcript for full list of courses taken and grades acquired
2015	Beaulieu College IEB Matriculant Certificate Graduated with Academic Honours Overall GPA: 80.87% (four distinctions achieved)

## Work Experience

March 2022	Lecturer, Teaching Assistant and Tutor
-	University of Cape Town
Present	Convening and lecturing a third year mechanical engineering course, designing assessments and course content as well as tutor management and course overview. Tutored seven different courses over this period. <a href="mailto:ramesh.kuppuswamy@uct.ac.za">ramesh.kuppuswamy@uct.ac.za</a> (Associate Professor and Supervisor)

## Work Experience - Continued

January 2021 - Present	Graduate Engineer BMEC Technologies Mechanical design and revisions, manufacturing design, software development (front-end, back-end as a service and basic firmware) and basic PCB design. Production equipment and systems. Helping with day-to-day requirements.
December 2021 - Present	Co-Founder Typomeno Development of NFC and NFT technology, website building, business plans, pitching of business, organization, artwork distribution and shipping, meetings with business executives and artists.
January 2019 & June - July 2019	Engineering Internship PVC Pipefit Engineering Production management, designing custom pipes as required and manufacturing, sales and basic engineering analysis of PVC pipes. Contact: +27 21 981 0503 (Sean Diab, General Manager)
February 2018 - February 2021	Waiter and Chef as well as a Managerial Internship South China Dim Sum Bar Food preparation, cooking dishes for customers, learning managerial and administrative skills, general waitering duties. Contact: +27 82 374 5266 (Edmund Huang, owner and chef)
June 2016 - July 2016	Workshop Training Program (Vacation Practical Experience) Cape Peninsula University of Technology Two-week intensive training course involving arc-welding, lathe machining, hand tool work, basic CNC machining and instrument measurement.

## Publications

### Journal Articles

August 2022	"Spring-Dashpot Vibrational Model for the Investigation of Viscoelasticity in Gelatinous Abrasive Media and Subsequent Control of Parameters for the Blast Polishing of Ti-6Al-4V Alloy" (primary author)
May 2021	"A study on intelligent grinding systems with industrial perspective" (co-author)
May 2022	"Polishing of a Selective Electron Beam Melting Processed Tungsten Carbide Punch through High Velocity Impinging of Flexible Media" (co-author)

### Conference Papers

March 2022	"A Force Controlled Polishing Process Design, Analysis and Simulation Targeted at Selective Laser Sintered Aero-Engine Components" (primary author)
March 2022	"Towards configuration and development of an Augment Reality (AR) enhanced Intelligent Grinding System (IGS) for Ti6Al4V alloy" (co-author)
March 2022	"Research Endeavors Towards Development of an Intelligent Grinding System" (co-author)

# Technical Skills

## Programs:

Proficient in SolidWorks, DeweSoft (data acquisition), MathCAD, LabVIEW, and Microsoft Office

Intermediate knowledge of Python, Java, Flutter and Dart, HTML and CSS, Firebase and Database Management Software, Slicing Softwares

Basic knowledge of CircuitStudio, Embedded RTOS Programming and PCB Design, Adobe Illustrator, Indesign and PhotoShop.

## Languages Spoken:

English (Home-language/Fluent)  
Afrikaans (limited working proficiency)

## Specialized Skills:

Ability to operate a surface grinder, experience with manufacturing equipment and 3D Printers, adept with both hand and power tools, Car and motorcycle driver's licenses

# Key Skills

- Organizational, administrative and process planning skills honed from working as a course convener/lecturer and as a tutor and postgraduate student
- Team collaboration and communication skills learned in the consulting trade and as part of university involvements as both a staff member and student.
- Patience, ability to adapt, and commitment to completion of tasks
- Adept with recent and emerging technologies due to a foundational upbringing with technology
- Ability to work as an individual, self-management, practical problem solving, project planning, and in-depth research skills, learned through my postgraduate career and implemented as a consultant engineer

# Interests/Hobbies

- A deep-rooted interest in cooking and food sciences
- Sports and exercise, particularly football, formula 1 and personal training, form both interests and hobbies
- Fine arts is a notable interest of mine
- Sustainable manufacturing, renewable energy and nano-technology
- Reading research papers and researching topics outside of engineering is an interest I enjoy
- Enjoying nature and taking care of pets are other interests of mine.