First name, last name:

Mohammed Rameez, NJARAKATTIL BASHEER

Master of Science Mechanical Engineering Student

PROFILE

Date of Birth : 04.11.1994

Place of Birth : Al Khafji KSA, Saudi Arabia

Nationality : Indian

Relationship status: Single

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Contact

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Education

2020- Present — **Master of Science in Mechanical Engineering with focus on Design & Development**

- Hochschule Rhein-Waal University of Applied Sciences, Kleve, Germany
- Grade Average: 2.1 (German grading system)

2014- 2020 — **Bachelor of Science in Mechanical Engineering**

- Hochschule Rhein-Waal University of Applied Sciences, Kleve, Germany
- Grade Average: 2.4 (German grading system)

2013- 2014 — **College preparatory course at Freshman Program**

- Scientific Freshers, Bedburg-Hau, Germany
- Grade Average: 2.3 (German grading system)

1999-2013 — **Schooling**

- Holy Grace Academy, Kerala, India
- Grade Average: 9/10 (Indian grading System)

Project

Project 1 — **Two-layer Fluid-powder mixing connector and cartridge at Miltenyi Biotec B.V. & Co. KG, Germany**

Description
- Design and Development of cost-effective injection molded disposable cartridge capable of mixing fluid-powder and storage of 9 different reagents of varying volumes.

Task
- 3D modelling & 2D CAD drawing of 9 chamber reagent cartridge.
- Design of connector for automatic filling of reagents.
- Preparation of experimental board to test the cartridge filling and mixing.

Software used
- Siemens Solid Edge ST9 for 3D & 2D CAD drawing.

Project 2 — **Field Robot (at Rhein-Waal university)**

Description
- Development of an Agricultural field robot intended to count crops in a predefined area of land.

Task
- Project leader and the CAD Designer, assigning working schedule to teammates, overall coordination of the project including final check before submission.
- 3D & 2D CAD drawing and necessary calculation regarding dimension/material selection for robot parts.
- Prepare Bill of Materials (BOM).

Software used
- SolidWorks for 3D & 2D CAD drawing, surface modelling.
- Microsoft Office for compiling report and presentation of final project.
- Microsoft Project for assigning Working schedule (Gantt Chart).

Project 3 — **Two Shaft Bevel Gearbox (at Rhein-Waal university)**

Description
- Development of Two Shaft Bevel Gearbox used in ships/train/trucks.

Task
- Designed a CAD model (3D & 2D) of Two shaft Bevel Gear Box along with material selection of each individual components in the gear box.

Software used
- SolidWorks for 3D & 2D CAD drawing.

Work Experience

Feb. 2020- Present — **Werkstudent (Part time Design engineer) at Miltenyi Biotec B.V. & Co. KG , Germany**

- Component design, CAD assemblies, 2D Drawings, Dimensional Tolerancing.
- Test Engineering and requirement engineering for next generation medical devices.
- Reverse Engineering.

Oct. 2019- Jan. 2020 — **Bachelor's Thesis student at Miltenyi Biotec B.V. & Co. KG, Germany**

- Development of modular pressure generation unit and pressure control unit.
- Design, Adaptive Assembly, BOM, 2D Drawings, Dimensional Tolerancing, Reverse Engineering, Requirement engineering, Pneumatics.

Apr. 2019- Sept. 2019 — **Internship at Miltenyi Biotec B.V. & Co. KG, Germany**

- Design of pneumatic supply unit for next generation medical instruments.
- Design and selection of components for pressure delivery, accumulation, measurement, and regulation.
- Requirement engineering for pressure supply.
- Performance testing of instrument.

Sept.2016- Mar.2019 — **Student Assistant at Scientific Freshers Program, Bedburg-Hau, Germany**

- Interaction with students and organizing student activities.
- Working member of an international student office for the Freshman Program.

Feb.2014 – Mar. 2014 — **Internship:Theodor-Bauer-Haus,Kleve, Germany**

- Introduction to Electrical Circuits, Soldering.
- Exercised mechanical processes such as Turning, Milling, Drilling and Filing.
- Learned the use of Pneumatics and Hydraulic Pumps in real life applications.

Languages Known

English	**Advanced** (IELTS 7.5)
German	**Intermediate** (A2.2-B1)
Malayalam	**Advanced**
Hindi	**Advanced**
Tamil	**Intermediate**

Softwares Known

SolidWorks	**Advanced**
SIEMENS Solid Edge ST9	**Advanced**
ANSYS	**Advanced**
MATLAB	**Advanced**
Simulink	**Advanced**
Python	**Advanced**
Microsoft Office	**Advanced**