

Curriculum vitae

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Professional Experience

project Automation & Engineering, Kranenburg, Germany

12/2019 – 03/2020

Thesis - "Finite Element Analysis Assisted Development of Ultrasonic Sonotrode for Plastic Film Welding"

- Cost effective solution to an industrial problem.
- Conceptualization and CAD of a sonotrode of an ultrasonic welding machine.
- Simulation and analysis using Finite Element Analysis.
- Development of a design protocol to produce a credible solution.

project Automation & Engineering, Kranenburg, Germany

07/2019 – 12/2019

Intern

- Calculation of variables of machine parts and segments to meet customer requirements.
- Determination of optimum positioning of machine segments.
- 3D modeling of machines and machine segments. Determining alternative solutions to mechanisms for efficient execution of functions.
- Troubleshooting, analysis and testing of mechanisms of machines.

Rhine-Waal University of Applied Sciences, Kleve, Germany

10/2017 – 02/2019

Student Tutor

- Tutor for Introductory Mathematics and Applied Mathematics.
- Student assistance in subject topics.
- Online tutoring on assigned topic.
- Correction, evaluation and providing proper feedback of assignments.
- Determination of an effective way to communicate with individual students.

Herbert Korgel, Kleve, Germany

07/2017 – 09/2017

Intern

- Training in cutting different profiles of steel and aluminum.
- Thermal cutting and adjoining processes.
- De-burring and preparation of cut parts for further steps in the production process.
- Parts assembly, drilling, boring and thread cutting.
- Proper understanding of technical drawings and delivering products accordingly.
- Part production using CNC machines.

Skills

Good interpersonal communication skill, attention to details, quick learner, and organized.

Trained in CAD software such as SolidWorks and Autodesk Inventor. Matlab as a programming and mathematical solution tool and Matlab Simulink for simulations. Knowledge of ANSYS Workbench for Finite Element Analysis. Good command over MS Word, Excel and PowerPoint.

Education

Rhine-Waal University of Applied Sciences, Kleve, Germany

09/2016 – 06/2020

B.Sc. Mechanical Engineering

Grade: 1.40 (\approx CGPA: 3.70)

- Knowledge in Fundamentals of Process Engineering, Thermodynamics, Manufacturing and Quality, Condition Monitoring, etc.
- Knowledge of Advanced Engineering Design, Modeling and Simulation, 3D Design.

BRAC University, Dhaka, BD

01/2014 – 04/2016

B.Sc. Electrical & Electronic Engineering

CGPA: 3.69

- Attainment of German university entrance qualification after 2.5 years. Basic knowledge of Electrical Engineering achieved.

Chittagong Cantonment Public School and College, Chittagong, BD

06/2011 – 08/2013

Higher Secondary Certificate (HSC)

GPA: 5.00

Student Projects

Rhine-Waal University of Applied Sciences, Kleve, Germany

09/2018 – 12/2019

“eHoist500” – Design and Analysis of a Mobile Crane

- Function and design conceptualization of an electric mobile crane.
- Determination of feasible product requirements.
- Calculation of part dimensions, determination of mechanisms for carrying out different functions, part selection and 3D modeling.
- Finite Element Analysis of product parts for a credible solution.

Rhine-Waal University of Applied Sciences, Kleve, Germany

09/2017 – 12/2017

“Campus Watchdog” – Design and Modeling of the Hardware of a Drone

- Conceptualization of the drone function and hardware.
- 3D modeling of product.
- Determination of optimum arrangement of parts, material selection of the structure and shell of the drone.

References

Mr. Ingo Rathmann

Head of Design Department

project Automation & Engineering

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Mr. Prof. Dr. Niels Ostergaard

Professor, Mechanics

Rhine-Waal University of Applied Sciences

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