

MUNIR MARUF



PROFILE

As an **optical engineer** with a solid foundation in **electrical engineering** and a practical mindset, I am looking to apply my extensive knowledge of optics and electronics in roles related to laser technologies, photonics, optics, applications, and customer service engineering. I am skilled in circuit modeling, optical alignments, and coding. In my field, I have designed and completed several projects effectively and am able to acquire new abilities quickly.

CONTACT DETAILS

+49

✉ Vereinsstr. 35, 44793 Bochum, Germany (Ready to Relocate)

PERSONAL INFORMATION

Citizenship: **Bangladesh**

Hobbies: **Hiking, Trail Running, Indoor Plants, Traveling**

SKILLS

- Microscopy, Holography, Confocal Sensors, Laser Applications, THz, Spectroscopy, 3D Printing
- Matlab, Python, G-code, Java
- Arduino, Raspberry Pi, Micro-controllers, PCB Design Robotics
- Ansys Zemax OpticStudio
- OpenSCAD, FreeCAD
- PSpice, dsch2
- Microsoft Office Suite, LaTeX, LibreOffice
- Communication and team collaboration
- German (A2), English (native), Bangla (native)
- Driving licence class B

EDUCATION

MASTER IN LASERS & PHOTONICS at *Ruhr University Bochum*. **03/2023**

- ◇ Mandatory Courses: Laser Technology, Laser Material Processing, Laser Metrology, Photonics, Optoelectronics, Optical Metrology.
- ◇ Elective Courses: Fiber optics, Photovoltaics, Biomedical Optics, Computational Engineering, Terahertz Technology, Laser Spectroscopy, Quantum Optics.
- ◇ Thesis title: *Optimization of a Setup Based on Confocal Achromatic Sensor*.

BACHELOR OF SCIENCE IN ELECTRICAL & ELECTRONIC ENGINEERING. at *BRAC University*. **05/2015**

- ◇ Courses: VLSI Design, Analog Integrated Circuit Design, Electronics Devices and Circuits, Semiconductor Devices and Material, Digital Electronics, Digital System Design.
- ◇ Thesis title: *Robotics Project based on UAV Based Remote Sensing*.

EXPERIENCE

CAREER BREAK **05/2023-06/2024**

- ◇ Took a break to focus on my health and acquire driving skills.

MASTER THESIS/ WISSENSCHAFTLICHER MITARBEITER at *Ruhr University Bochum (Germany)*. **08/2022-03/2023**

- ◇ Microscopy applications to identify material and surface characterizations using confocal sensors and THz measurements (THz-TDS) of different samples at varying angles to compare the findings of different surface roughness parameters.

WORKING STUDENT/ WERKSTUDENT at *Orridge Inventory Services, Vapiano Rheinland GmbH, DD Logistik Vertriebs GmbH (North Rhine-Westphalia, Germany)*. **02/2019-03/2022**.

- ◇ 20-hour/week student jobs in the fields of inventory, hospitality, and logistics.

ASSISTANT DESIGN ENGINEER at *Niaz & Associates Ltd. (NIAZ) (Dhaka, Bangladesh)*. **05/2015-12/2015**

- ◇ Different projects of Power Grid Company of Bangladesh Limited (PGCB), surveying of 33/11KV substation, voltage drop, system loss, and power factor analysis.

TECHNICAL WRITER/ STUDENT JOB at *Engineering Consultants Ltd (ECL) (Dhaka, Bangladesh)*. **09/2013-01/2015**

- ◇ Created technical and marketing content for conferences, events, and workshops.

PROJECTS AND PRACTICAL MODULES

PROJECT ADVANCE OPTICS: IMAGING AND ANALYSIS OF MICRO-PARTICLE USING LENS-LESS HOLOGRAPHIC MICROSCOPY at *Ruhr University Bochum*. **2018**

- ◇ Imaging, tracking and analyzing micro-particles using holographic microscopic techniques.

PROJECT OPTICS FUNDAMENTALS: MICHELSON INTERFEROMETER, HOLOGRAPHY AND DATA MANIPULATION USING MATLAB. at *Ruhr University Bochum*. **2017**

- ◇ Projects based on different interferometric setup and and of its practical application

PRACTICAL MODULES at *Ruhr University Bochum*. **2017-2022**

- ◇ Seminar Terahertz Technology, Math for Laser Engineers, Laser Colloquium, Seminar Photonics.

COMMUNITY INVOLVEMENT

HELPLINE VOLUNTEER at *Kaan Pete Roi* **04/2015-03/2016**

- ◇ Helpline volunteer for an emotional support and suicide prevention hotline.

CLUB PRESIDENT at *BRAC University Heritage Forum*. **09/2014-08/2015**

- ◇ President of a club that promotes conservation of cultural & heritage sites.

STUDENT MEMBER at *BRAC University Robotics Club*. **01/2014-05/2015**

- ◇ Participated in local robot building championships.

RESIDENTIAL SEMESTER (RS) at *BRAC University* **05/2011-08/2011**

- ◇ 13 weeks full residential semester that aims at holistic development.