

Curriculum Vitae

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Academic Details:

10/2018 - 03/2022 **Master of Science in Laser & Photonics Engineering**
Grade - 81% Ruhr Universität Bochum, Bochum, Germany
Courses: Optical metrology, Laser Technology, Semiconductor, Lidar, Optoelectronics, Laser Metrology, Optical Fiber, Laser Material Processing, Sensor technology.

09/2021- 03/2022 **Master Thesis:**
Grade - 97% **Development of Laser Sensor in Mining Industry Under a Harsh Environment**

03/2022 - Present **German Language Course A2**

09/2014 - 08/2018 **Bachelor of Technology in Electronics & Communication Engineering**
Grade - 76% Maharishi Dayanand University, Rohtak, India

Practical Experience:

01/2021 - 10/2021 **Master Thesis:** Research and Development Department
Thyssenkrupp Industrial Solutions AG, BU Mining, Essen - Germany
Area of influence:

- Find out the problem and get in touch with the customer and product manager from an early stage of product development.
- Research for possible available technology in the market and define an agile product development concept.
- Get in contact with different suppliers and investigate the available laser sensors in the market.
- Research and analysis for target costing for sales and product development.
- Design and development of CAD model of the prototype using Solidworks.
- Construction and commissioning of a prototype using pre-existing components and customized components.
- Prototype testing to determine the possibilities of a laser sensor in an open dusty environment utilizing a wide range of materials.
- Deep machine learning approach to evaluate data in Python to describe information obtained during prototype testing.

05/2019 - 12/2020 **Working Student:** Technology, Innovation & Sustainability / Research, and Development Department.
Thyssenkrupp Industrial Solutions AG, BU- Mining, Essen - Germany
Area of influence:

- Support in establishing a new architecture of validation, verification, and testing to improve the outcome of product digitalization development to meet stakeholder needs.
- Collaborate closely with the head of the R&D department and the sales department to meet the needs of customers in various digitalization pilot projects.
- Post-processing data analysis with Python.
- Carry out various analytical research, innovation, and development for advanced technology in automation and digitalization.
- Accountabilities include technical product concepts, solution design, and development outsourcing, including the development of a roadmap with team members.

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- 01/2018 - 04/2018 **Internship**
Amapai Corporation India Pvt. Ltd.
 Area of influence:
- Automation service.
 - Production line inspection using software tools.
 - Methods used for manufacturing pipes.
- 06/2017 - 07/2017 **Summer Training**
Huawei Telecommunication (India) Pvt. Ltd.
 Area of influence:
- Tested software components of electronics.
 - Simulation of devices for integration test.
 - Telecommunication system documentation.

Research Projects:

- 10/2018 - 02/2022 **Master's Projects:**
- Laser peening.
 - Laser marking.
 - Raman spectroscopy.
 - Measurement of stokes parameter using müller matrix.
- 09/2014 - 06/2018 **Bachelor's Projects:**
- Smart low-cost water pump project.
 - Advance headlight system.
 - Home security system.
 - Piezoelectric generating tiles.

Social Activities:

- 10/2018 - 12/2021 Volunteer In Local Committee - Bochum
 International Association for the Exchange of Students for Technical Experience
- Meeting with different companies and universities to collaboration with I.A.E.S.T.E.
 - Attend various seminar to build financial and business growth.
 - Create a digital media platform for our local committee.
- 02/2016 - 12/2017 Volunteer in Agastya International Foundation - New Delhi
- Helping poverty- stricken children for teaching mathematics and physics.
 - Attend various science exhibitions with students.

Skills:

Language: Mother Tongue: Hindi, Punjabi

Other Language:

English

Listening	Reading	Speaking Production	Spoken interaction	Writing
C ₁	C ₂	C ₁	C ₂	C ₁

German (Undergoing Learning)

Listening	Reading	Speaking Production	Spoken Interaction	Writing
A ₂	A ₂	A ₂	A ₂	A ₂

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Digital: **MS-Office** (PowerPoint, Word, Excel, Teams) – Advance
Python - Advance
MATLAB - Intermediate
LaTeX – Intermediate
C - Programming - Basics

Conference and Seminars:

Big Data Applications & it's future in cooperation with IASH (Volkshochschule Hannover)
Journal Club for Laser Technology. (Ruhr University Bochum)
Seminar for Photonics. (Ruhr University Bochum)
Seminar for Terahertz Technology. (Ruhr University Bochum)
Methods and Instruments of Technology Management. (Ruhr University Bochum)
Technical Project Exhibitions (New Delhi, India)

Honors and Awards:

Award by various government authorities of State Government of India for sustainable projects.
Participation in Holy Faith Talent Search Exam.
Secured 22nd position in District in International Mathematics Olympiad.
Secured 1st position in District Taekwondo Championship.
Secured 1st position in Intercollege Technical Tournament.
Secured 2nd position in Intercollege Science Exhibitions.

References:

Dr. Peter Börsting | Head of Technology and Innovation | Dematic GmbH
Contact: peter.boersting@gmx.de
Mr. Tomasz Kwiatkowski | Head of R& D Projects | Thyssenkrupp AG
Contact: tomasz.kwiatkowski@thyssenkrupp.com
Prof. Dr. Cemal Esen | Ruhr University Bochum
Contact: esen@lat.rub.de
Prof. Dr. Raj Kumar Yadav | Central Indra Gandhi University | India
Contact: raj.indya2000@gmail.com

Interests:

Hobbies: Traveling
Learning new technology
Learn about new culture and traditions

31.04.2022

Essen

