

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: Laser, Optical metrology, Laser Technology, Semiconductor, LIDAR, Optoelectronics, Laser Metrology, Optical Fiber, Laser Processing, Sensor technology.

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

04/2022 - Present **German Language Course B₁**

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:**
Thyssenkrupp Industrial Solutions AG, BU Mining, Essen - Germany
Area of influence:

- Identify the issue and interact with the stakeholder and product manager early in the product development lifecycle.
- Investigate market-available technology and develop an agile product development model.
- Initiate relationship with different suppliers and explore the market's available laser scanner.
- Conduct research for sales and product development target costing.
- CAD model development for the prototype using SolidWorks.
- Developing and establishing a prototype out of both already existing and specially made components.
- Prototype testing and data analysis were performed by applying a deep machine learning approach using Python.
- Investigations were performed using various materials to understand the potential of a laser scanner in an open, dusty environment.

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 developing a new validation, verification, and testing architecture to improve the outcome of product digitalization development.
- Collaborate closely with the R&D and sales departments to accommodate client demands in various analytics and IoT solution projects.
- Python was utilized to post-process conveyor belt data to establish new KPIs.
- Initiate analytical research, innovation, and development for innovative tools to be applied in mining products.
- Handling R&D budgets with risk assessments and marketing cost analysis.

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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

C₁

C₂

C₁

C₂

C₁

German (Undergoing Learning)

Listening

Reading

Speaking
Production

Spoken
Interaction

Writing

B₁

B₁

B₁

B₁

B₁

Curriculum Vitae

Digital: **MS-Office** (PowerPoint, Word, Excel, Teams) – Advance
Python - Advance
Operating System (Windows, Linux) - Advance
MATLAB - Intermediate
LaTeX - Intermediate
SQL - Intermediate
Tableau - Intermediate
Power BI - Intermediate
GitHub - Basics

Soft Skills: Strong Communication
Time Management
Flexible and Adaptable
Easy method of problem solving
Team Player
Eager to learn and practice any new digital working tools.

Conference and Seminars:

Big Data Applications & it's future. (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
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

Essen, 26.06.2022



26. June 2022

Sanjeev Sharma