

# Tanmay Moharana

## Digital Transformation & Innovation Management Professional

A change agent and problem solver with a passion for technology having advanced experience in leading innovation management and digital transformation.



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## SKILLS

Innovation Management

Product Development

Digital Strategy

Business Strategy

Project Management

Agile Development

Design Thinking

JIRA

Analytics

Patent Mining

Data Science

Machine Learning

## TECHNICAL SKILLS

### Data & Statistical Tools

SQL, Strata, SPSS, R, Microsoft Power-BI, Tableau

### Web Technologies

HTML, CSS, Javascript, Firebase, AWS, Google Cloud Platform.

### Creative Technologies

Arduino, Raspberry Pi, Microsoft Kinect Development

### Programming Languages

C, C++, and Python

## LANGUAGES

English



German



## WORK EXPERIENCE

### Co-Founder

Hermit Labs [🔗](#)

08/2018 – Present

Freiberg Innovation Incubator/SAXEED

Freiberg, Germany

#### Achievements

- Created an early-stage start-up that provides IoT and AI-based predictive maintenance solutions to mining and metal industries.

### Data Analyst Intern

MotionTag GmbH [🔗](#)

09/2018 – 12/2018

Potsdam, Germany

#### Achievements

- Analyzed geolocation data sets for effective mode of transport detection.
- Led the team in implementing design thinking and innovation.

### Intern - Digitalization

The Linde Group [🔗](#)

04/2017 – 09/2017

Digital Base Camp - Innovation Lab

Munich, Germany

#### Achievements

- Developed remote support applications for plant technicians using augmented reality & smart glasses such as EPSON BT 350. [🔗](#)
- Developed prototype artificial intelligence based edge-computing and IoT device for predictive maintenance of valves.

### Senior Research & Development Engineer

Tega Industries Limited [🔗](#)

07/2011 – 09/2015

R&D Division

Kolkata, India

#### Achievements

- Developed a smart wireless system for wear measurement and monitoring of polyurethane screen decks based on Internet of things.
- Developed and implemented a wireless identification and tracking system for screen decks using IoT.
- Worked with cross-functional teams for implementation of strategic innovation management using an agile mind-set.
- Developed an indigenous screen efficiency program using VB and mathematical modeling.
- Led efforts in development of a modular trommel screen that can be easily transported (Jointly with Indian Institute of Technology, Kharagpur).

## EDUCATION

### MBA- International Management

Technische Universität Bergakademie Freiberg

10/2015 – 12/2019

Freiberg, Germany

*Thesis*

- Digital transformation initiative in the mining and mineral processing industry : scope, challenges of implementation and impact on sustainability.

### Post Graduate Diploma in Mineral Processing

IMMT, Council of Scientific & Industrial Research, Govt. of India

05/2010 – 04/2011

Bhubaneswar, India

*Thesis*

- Development of process flow circuit for utilization of high phosphorus low grade iron ore at Jindal Steel ,El' Mutun , Bolivia.

### Bachelor of Technology in Mining Engineering

Government College of Engineering- Biju Patnaik University of Technology

03/2005 – 03/2009

Keonjhar, India

## PUBLICATIONS

*Seminar*

**Developing a remote data acquisition, production information, and visualization system in mineral processing industry based on Internet of Things**

*Author(s)*

Tanmay Moharana

06/12/14

International seminar on mineral processing technology MPT'14

*Seminar*

**Role of renewable energy in building a sustainable mining and mineral processing ecosystem.**

*Author(s)*

Tanmay Moharana

06/12/2017

International seminar on mineral processing technology MPT'17

## PATENTS

Vibrating screen panel health monitoring system (smart IoT based screen wear measurement system) [🔗](#)

US 9327318B2

Snap-fit fixing system for screen panels- a new type of fixing arrangement for vibrating screen decks [🔗](#)

US 9327318 B2

A fixing arrangement having multi-stage contoured snap-fit fixing means for fixing of a screen panel on a support structure [🔗](#)

WO2015170334 A1

Trommel assembly- modular easy to transport trommel structure [🔗](#)

US 9364864B2

Trommel assembly having a spiral assembly with a decaying pitch [🔗](#)

US 20160129477A1

## PROJECTS

ARIDuA (Autonomous robots and the Internet of Things in underground mining). (05/2018 – 07/2018) [🔗](#)

- Developed a sensor data acquisition system and time series based prediction algorithm.

UniWind - Student Wind Energy Research Initiative (01/2015 – 01/2016)

- Technical Lead for Design and Simulation of Vertical Windmill System.

## HONORS & AWARDS

Semifinalist at I2I B-plan contest (2015)

Indian Institute of Management, Calcutta

Participated in Intel IoT roadshow event (2016)

A-lab, Amsterdam

Nominated for Saxon Founder Prize - Audience Award (2019) [🔗](#)

futureSAX - the innovation platform of the Free State of Saxony

Selected for Design & Innovation Workshop (2015) [🔗](#)

Media Lab - Massachusetts Institute of Technology

Finalist of EIT Raw Materials - Jumpstarter (2019) [🔗](#)

European Institute of Innovation and Technology- Raw Materials, Warsaw