Curriculum vitae

PERSONAL INFORMATION

Tanmay Moharana

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Sex Male | Date of birth 05/01/1987 | Nationality Indian

PERSONAL STATEMENT

A change agent and problem solver with a passion for technology skilled in grasping the big picture, conceptualizing, developing and implementing solutions. I have transitioned and evolved over the years learning rapidly to find my passion in innovation and digitalization, in which I aim to further excel and make a mark.

WORK EXPERIENCE

01/04/2017–30/09/2017

Intern- Digitalization
Innovation Management

The Linde Group, Munich

- Development of Augmented Reality applications for smart glasses such as EPSON BT 300 to be deployed along with Edge computing and IoT for sensor based data augmentation for remote support and inspection.
- Optimizing data security over the IoT networks using secure REST based API and cloud data based architecture for secure sensor data acquisition.
- Working on development of machine learning algorithms using Google's Tensorflow library for image classification of different types of gas cylinders, with support for the smart glasses.

04/07/2013–20/08/2015

Senior Reseach & Development Engineer
Tega Industries Limited, Kolkata (India)

- Development of a wireless system for smart wear measurement and monitoring of polyurethane screen decks based on Internet of things.
- Development and implementation of wireless identification and tracking system for screen decks using IoT platforms and embedded software programming.

10/09/2013–04/03/2015

Co-Founder
IndiaTechLabs(Incubation offer at Indian Institute of Management, Calcutta)

A start up technology company that provides software solutions for mining and mineral processing industries with solutions ranging from analysis software to Android mobile apps for IoT-based devices.

04/07/2011–08/07/2013

Application Engineer-Research & Development
Tega Industries Limited, Kolkata (India)

- Development of indigenous screen efficiency program using VB and mathematical modeling.
- Development of a modular trommel screen that can be easily transported. (Jointly done with Indian Institute of Technology, Kharagpur one of the premier technical universities in India).
- Developing a mathematical simulator for movement of slurry inside a rotating trommel structure using Octave mathematical modeling software.

EDUCATION AND TRAINING

20/08/2015–Present

MBA- International Management for Resources and Environment
Technische Universität Bergakademie Freiberg, Freiberg (Germany)

04/05/2010–02/04/2011

P.G. Diploma in Mineral Processing
Council of Scientific & Industrial Research-IMMT, Bhubaneswar (India)

30/03/2005–30/03/2009

B.Tech in Mining Engineering
Government College of Engineering, Keonjhar (India)

PERSONAL SKILLS				

Mother tongue(s): Oriya

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1
	TOEFL				
German	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Job-related skills
- Research related skills: Patent Mining, QFD-Quality function deployment, ISQ- Inventive System Questionnaire, Project Management.
- Mining & Mineral Processing Software: Aggflow, MODSIM.

Computer skills
- Web Technologies: HTML, CSS, XML,JAVA,ANDROID,JAVASCRIPT, FIREBASE
- Creative Technology: Arduino, Raspberry Pi, Microsoft Kinect Development.
- Scientific Computing: Octave, FEA-ANSYS, ANSYS APDL Programming, DEM-EDEM
- Design Tools: Autodesk Inventor, ReplicatorG-3D printing software.

Other skills
- Amateur photographer.
- Core team member Google Business Group, Bhubaneswar, India.
- Member of Google Developers Group, Bhubaneswar, India.

ADDITIONAL INFORMATION				

Seminars
- Developing a remote data acquisition, production information, and visualization system in mineral processing industry based on Internet of Things. ***International seminar on mineral processing technology MPT'14***
- A study on the usage of Augmented Reality and modern mobile technologies in information management in mining and mineral processing industries. ***International seminar on mineral processing technology MPT'14.***

Patents
- Vibrating screen panel health monitoring system (smart IoT based screen). ***WO 2014136121 A1***
  http://bit.ly/1MSGVpb
- Trommel assembly- modular easy to transport trommel structure. ***WO 2014024204 A1***
  http://bit.ly/1MSH5Nk
- Snap fit fixing system for screen panels- a new type of fixing arrangement for vibrating screen decks. ***WO 2014080415 A1***
  http://bit.ly/1xlqv6Y
- An Improved snap fit screen panel and fixing system- a fixing system for screen decks for vibrating screens. ***US20150290682 A***1
  http://goo.gl/o8zicH
- Trommel assembly having a spiral assembly with a decaying pitch.***WO 2014181356 A1***
  https://goo.gl/hLNrBs
- A fixing arrangement having multi-stage contoured snap-fit fixing means for fixing of a screen panel on a support structure. ***WO2015170334 A1***
  https://goo.gl/iUVTt6

Honors and awards
- Selected for Leadership training by Tega Industries at Calcutta Business School,2014
- IndiaTechLabs (formerly SyncInLab) was selected in Semi-finals of I2I B-plan contest at IIM Calcutta and was among the top 20 teams.
- Participated in Massachusetts Institute of Technology Media Lab India Initiative –Design & Innovation Workshop-2015, Gandhinagar, India.
- Participated in Intel IoT roadshow event 2016 at A-lab, Amsterdam.
- Participated in Start-Up India Event 2016 held at Indian embassy, Munich, Germany.