

# Bharat Mehta

PhD Researcher in Materials Science

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## Education

Masters of Science : Materials Engineering Aug'2017 - June'2019

[Chalmers University of Technology, Gothenburg, Sweden](#)

Studying in the field of applied materials with respect to the manufacturing industry. Learning to work with cutting edge research in Metals, Composites and Plastics.

Bachelors of Technology : Mechanical Engineering Jul'2011 - Jun'2015

[National Institute of Technology, Jalandhar, India](#)

## Work experience

Master's Thesis Worker Jan'2019 - June'2019

[ABB Corporate Research, Västerås](#)

Working in the field of Metal Additive Manufacturing

Project Engineer Aug'2017 - Aug'2018

[Chalmers Formula Student](#)

Design, Analyse and Manufacture to build a performance formula style race car for Formula Student competitions in Austria, Netherlands and Spain in 2018. Worked in frame sub-group, responsible for carbon fibre layups, driver ergonomics, firewall, steering wheel, roll hoops and metal additive manufactured parts.

Assistant Manager, Quality Assurance Jul'2015 - Jul'2017

[Maruti Suzuki India Ltd](#)

Worked in production quality and service quality for two years to resolve in-house and service defects in vehicles. Led to about 8 design improvements in running models.

## Published Research

Adaptive Neuro Fuzzy Inference Systems for modelling/ detecting cracks and porosity using liquid penetrant test

[Inderscience Publishers](#)

Paper based on deep machine learning where a system was taught to learn to replicate a dye penetrant test in order to be able to detect any defect in samples.

Comparative Analysis of PU and Epoxy based coatings on the durability of concrete

Study of utilising metal coatings on concrete to enhance the weather ability of concrete samples.

Surface and sub-surface crack analysis in carbon steel samples using Magnetic Particle Testing and Liquid Penetrant Testing

[American Society of Non-Destructive Testing](#)

## Skills

Manufacturing

Metals Manufacturing : Manual Milling, Lathe and Cutting operations

Composites Manufacturing : Wet or pre-impregnated layups for PMCs

Additive Manufacturing : Experience with EOS M290, Realiser SLM50 Machines ; PLA, ABS, Composites in FDM Machines

Design & Development

CAD Software: CATIA V5, Solidworks

Analysis Software: ANSYS

AM Software: Materialise MAGICS, CURA

Product Development

From Part Prototyping to Start of Production.

Service Failure Analysis and Production Failure Analysis.

## Awards & Recognition

[Rashtrapati Bhavan Scholar : May 2015](#)

Awarded as a scholar at the end of my Bachelor's degree by the President of India. Represented my university during a week long meet at Rashtrapati Bhavan, official residence of the President of India

## Extracurriculars

- Captain, University Tennis Team (2011-2015)
- Core Member, Student's Union (2013-2015)