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# ABHILASH AGNIHOTRI

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## EDUCATION

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### Indian Institute of Science (IISc), Bangalore 2019

M.Tech, Materials Engineering  
CGPA: 8.8/10

### National Institute of Technology Karnataka (NITK), Surathkal 2017

B.Tech, Metallurgical and Materials Engineering  
CGPA: 8.85/10

## CERTIFICATION, PRESENTATIONS AND PAPER

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–Certified **Green Belt Six Sigma** from KPMG

–"IIM Springer Best Short Presentation" award at the National Metallurgists Day-Annual Technical Meeting (NMD-ATM) 2017, Link: [http://bit.ly/NMD\\_2017](http://bit.ly/NMD_2017)

–Poster presentation at the National Metallurgists' Day-Annual Technical Meeting (NMD-ATM) 2016, Link: [http://bit.ly/NMD\\_2016](http://bit.ly/NMD_2016)

–"Comparison of HVOF and APS sprayed MCrAlY coatings using a novel ICP\* sensor", In the process of preparing a manuscript for submission to the journal 'Surface Coatings and Technology'

–Recipient of the Kennametal Foundation Scholarship for the year 2014-15 and 2015-16

## RESEARCH AND INDUSTRIAL EXPERIENCE

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### Indian Institute of Science (IISc), Bangalore

*Effect of electric current and multi-layering on whiskering in Sn<sup>T</sup>*  
*Structure property correlation in a  $\beta$  Titanium alloy<sup>I</sup>*

*Prof.Praveen Kumar<sup>A</sup>*  
*Prof.Dipankar Banerjee*

### National Institute of Technology Karnataka (NITK), Surathkal

*Failure analysis of rail steel and verification using Finite Element Analysis<sup>T</sup>*  
*Oxidation behaviour of a martensitic steel under thermal cycling<sup>P</sup>*  
*Molecular dynamics modelling of graphene<sup>P</sup>*

*Prof.Subray Hegde*  
*Prof.Udaya Bhat K*  
*Prof.Ajith K M*

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\*In-situ Coating Property  
<sup>T</sup>Thesis  
<sup>A</sup>Advisors  
<sup>I</sup>Internship  
<sup>P</sup>Project

**General Electric ITC India Pvt.Ltd., Bangalore**

*Validation of an ICP sensor for measuring residual stresses in MCrAlY coatings<sup>1</sup> Ms.Dheepa Srinivasan*

**Kennametal, Bangalore**

*Powder metallurgical processes of manufacturing tungsten carbide tools Mr.Ramesh Rao*

## SKILLS

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**Experimental:**

-Scanning Electron Microscopy

*Trained at the Advanced Facility for Microscopy & Microanalysis, IISc*

-X-Ray Diffraction (For phase identification and residual stress measurement)

-Optical microscopy, hardness measurement, mechanical testing, programming heat treatment cycles

**Computational:**

-Simulation softwares: ANSYS, COMSOL, DAMASK, CATIA v5, Minitab, LAMMPS

-Other: Imagej, Paraview, MATLAB

Last updated: September 18, 2018