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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<sup>\*</sup> 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*

<sup>\*</sup>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>I</sup>* Ms.Dheepa Srinivasan

**Kennametal, Bangalore**

*Powder metallurgical processes of manufacturing tungsten carbide tools*

*Mr.Ramesh Rao*

**SKILLS** \_\_\_\_\_

**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