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# Sumanth K Nadiger

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## Experience

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### ❖ Kennametal WIDIA India Pvt Ltd., Bangalore

- **Role:** Graduate Apprentice Trainee
- **Period:** 1 Year (16/9/19 – 15/9/20)
- **Company Profile:** Manufacturers & Suppliers of Best-in-Class Inserts, End Mills, Boring Bars for Aerospace, Earth cutting & SPM Machines.
- **Working Group:** MSG (Machining Solution Group)
- **Customers:** HERO, HMIL, Royal Enfield etc.,
- **Products:** VGG & VSG, Deep hole Drilling, SVTL, VTL, Headstock, Fixtures & Tool and Cutter.

#### Awards & Recognitions:

1. **IMPACT Award (Own It):** For Resetting the Original State of the Broke down Spindle Test-rig.
  2. **Kaizen Award:** Improvement in Routing of cable on Reader head for In-Built drive Rotary table assembly.
  3. **Find and Fix:** For Providing Safety Hazard Chart for Unattended Extinguisher.
- Worked as GAT for Assembly Team, I was able to get in-depth knowledge on different manufacturing process and I was able to get understanding on different types of spindles and their assembly, working and Applications. I was majorly allotted to **Tool and Cutter Spindle Assembly** and I was able to communicate and troubleshoot different problems easily with design team & other members and follow-up materials that are essential to the sub-assembly and assembly with respective vendor and Assign Work Details for the day and Reports for the same.

### ❖ Hands-on Training on “Machine Tool Design-Special Purpose Machine” an 8-week training program at “Indian Machine tool Manufacturers’ Association” (IMTMA) Design Institute from 08<sup>th</sup> Feb to 07<sup>th</sup> April 2021. Machine tool design is a comprehensive program structured from engineering basics to a complete machine design on part with industry standards.

The focus areas are as follows:

- Drafting standards and hands-on practice on drafting of manufacturing drawing
- Limits, Fits, Tolerances and GD&T
- Design of machine elements
- Engineering materials and heat treatment
- Cutting tools and metal cutting theory
- 3D modelling, Assembly modelling and 2D drawings on SOLIDWORKS Software
- Design of SPM Machine of Duplex Milling Head for Face Milling.

- A Project carried out right from concept to final machine design.
  - Design of CNC Lathe (From customer Input to machine concept and specifications)
  - Design calculation for cutting forces and power, spindle design, axes design and structural design.
  - Bearing life, spindle stiffness, V- belt & pulley, selection of anti- friction bearings
  - Calculation and selection of ball screw & LM guid ways
  - Machine hydraulics & pneumatics of machine tools
- ❖ Worked as a Design Engineer Trainee for 1 Month for “**Reverse Engineering of Automotive Vehicle to Electric Vehicle Design**” at **KADAMBA Industries Pvt Ltd., Bangalore.**
- ❖ Completed 4 weeks intensive course on ‘**FINISHING SCHOOL IN PRODUCTION ENGINEERING**’ from **IMTMA (Indian Machine Tool Manufacturer’s Association), Bangalore** from 22<sup>nd</sup> April 2019 to 20<sup>th</sup> May 2019.
- Engineering drawing including Limits, Fits & Tolerances and GD&T
  - Hands-on programming & Operation of CNC turning center.
  - Hands-on programming & Operation of CNC machining center
  - Selection of tools and optimizing machining parameters.
- ❖ **Shanthala Spherocast Private Limited, Shivamogga (Internship – 1 Month)**
- Shanthala Spherocast is the one of the well qualified manufacturers of Grey cast iron, ductile iron (S.G Iron) and alloy cast iron castings. We experienced both Foundry and Machining Sectors at one place. In one-month, complete industrial experience is given to us and we experienced how the component is casted and machined and maintained and how the component is marketed.

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## Academics

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Course	University/Board	Institute	Year of Passing	Percentage
Bachelors’ In Mechanical	V.T. U	N.D.R.K. Institute of Technology Hassan	2018	63.70%
Pre-University	State Board	Jyothi Pre-University College, Belgaum	2012	57.13%
S.S.L.C	State Board	Govt. Junior College Shiralakoppa	2010	75.14 %

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## Areas of Interest

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- Manufacturing and Production & Tooling’s.
- Automobile and Aerospace.
- Design and New Product Development.

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## Projects / Seminars Worked On

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- ❖ **Project Title:** Design and Analysis of Structural Beam through FEM Validation using Nastran-Partan. (2017-18).

**Description:** As name states we are designing a beam that is isolated from the Vertical Tail Assembly of an aircraft vehicle. The beam we are designing is called spar that bears the pressure loads all the 3 directions. We took up this project to help understand the concepts of Engineering in depth.

- ❖ **Technical Seminar:** Thermal Analysis of Disc Brake using SolidWorks and ANSYS.

**Description:** This Seminar is comprehensive study of design of the disc brake in SolidWorks and Analysis in ANSYS using FEM Method and Analyzing the structural changes and thermal hotspots and effect of forces on disc brake and Time Study on the Time Requirement for Attenuation of the Vehicle.

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## Profile

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| ▪ Father Name       | : Mr. Keerthi Kumar Nadiger   |
| ▪ DOB               | : 10-Jan-1997   |
| ▪ Gender            | : Male  |
| ▪ Marital status    | : Unmarried   |
| ▪ Languages Known   | : Kannada, English, Hindi (Read and Write)  |
| ▪ Permanent Address | : Shri Nilaya, Devraj Aras Colony,<br>H.K Road, Opp. KEB,<br>Shiralakoppa - 577428  |
| ▪ Current Address   | : #6, 24 <sup>th</sup> Cross, Pipeline Road,<br>Near Shani-Mahatma Temple,<br>Mallasandra, T-Dasarahalli<br>Bangalore -560057 |

**Declaration:** I do here by confirm that the information given in this form is true to do the best of my knowledge and belief.

**Date:**

**Place:**

**(Sumanth K Nadiger)**