



Pratik Gulab Meshram
(ASDC & IGCC Certified trainer)



**Government Industrial Training Institute,
Bhandara**

Success story

Trade:- Turner (2016- 2018)

Instructor
Shri. S. B. Mohare

Objective:-



As a dedicated CNC Trainer, my mission is to leverage my extensive experience in CNC machining to empower and educate aspiring professionals. I aim to impart comprehensive knowledge of CNC programming, machine operation, and troubleshooting, fostering a learning environment that promotes precision, efficiency, and safety. By combining hands-on training with theoretical insights, I seek to equip individuals with the skills needed to excel in the rapidly evolving field of CNC machining, contributing to the growth and success of both the workforce and the industry."



Technical Skills:-

1. CNC Programming: Proficient in creating and editing CNC programs using languages such as G-code and M-code.
2. CAD/CAM Software: Expertise in using Computer-Aided Design (CAD) and Computer-Aided Manufacturing (CAM) software for part modeling and program generation.
3. Machine Operation: Hands-on experience operating CNC machines and familiarity with a variety of machining processes.
4. Troubleshooting: Ability to identify and resolve issues related to CNC programming, tooling, and machine operation.
5. Tool Selection: Knowledge of selecting appropriate cutting tools, speeds, and feeds for different materials and machining operations.
6. Quality Control: Understanding of quality assurance processes and the ability to ensure precision and accuracy in machined components.

Teaching and Training Skills:-

1. Curriculum Development: Design and develop comprehensive training materials and curricula for CNC programming and machining.
2. Effective Communication: Strong communication skills to convey complex technical concepts in a clear and understandable manner to trainees.
3. Demonstration: Ability to demonstrate CNC programming techniques and machine operation effectively.
4. Hands-On Training: Provide hands-on training to individuals, emphasizing practical application of CNC programming principles.
5. Feedback and Assessment: Skill in providing constructive feedback and assessing the progress of trainees to enhance their learning experience.

Professional experience

- **Sr. CNC Trainer**
Skillsonic India pvt. Ltd. Pune

Responsibility

- Develop and Deliver Training Programs
- Conduct Classroom and Hands-On Training
- Demonstrate CNC Programming Techniques
- Teach CAD/CAM Software Skills
- Facilitate Problem-Solving and Troubleshooting
- Provide Feedback and Assessment
- Ensure Safety Compliance
- Stay Current with Industry Trends
- Mentorship and Support
- Collaborate with Industry Partners

- **Simulation Eng.**
SimuSoft Technologies Pune

Responsibility

- CNC Programming
- Machine Setup and Operation
- Process and Cycle Time Optimization
- Quality Assurance
- Troubleshooting
- Training and Knowledge Sharing
- Stay Informed about Technology Advances
- Collaboration with Engineering Teams

- **Production mgr. And Programmer**
R K Industries Pune

Responsibility

- CNC Programming
- Quality Assurance and Process Optimization
- Production Planning and Scheduling
- Team Leadership and Management



TESLA Rotor shaft KTFL cutting time reduced 15%



Trainings and Qualification

- **HSC:- Gramvikas high school Kondhi (2016)**
- **ITI:- Govt. Industrial Training Institute, Bhandara (2016-2018)**
- **Apprenticeship :- CVRDE DRDO Chennai (2019-2020)**
- **CITS :- NSTI Hyderabad (2020-2021)**
- **Certified CNC Trainer ASDC, Skill India & IGCC,(2022)**
- **Certified CNC Instructor IGCC (Indo-German Chamber of Commerce)**

Achievements



- ITI's 1st trainee to achieved © **Copyright** of Turner star stationery model made on conventional lathe machine

In Process

- Turner's Cube in Plus as Decorative Article Applied for design patent
- Nested Hexagonal Structure Machined from a Single Solid Metal Block applied for a © **Copyright**

Achievements



- India skill competition Maharashtra 2021 **silver medalist** in CNC turning
- India skill competition Maharashtra 2024 **Gold medalist** in Additive Mfg.



Great success during Apprenticeship

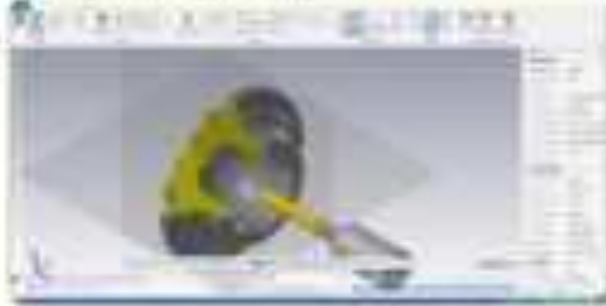
- 1st time developed Multistart Thread shaft in-house in DRDO Lab chennai

Simulation Success Story at KTFPL: 45% Cycle Time reduction

Problem: Time required to manufacture Ball Housing Joint Part was 333 seconds which was not economically feasible.

Objective:

1. Automatic tool path code generation using **Mastercam** simulation software.
2. To reduce cycle time of Ball Housing Joint manufacturing up to 100 seconds.
3. To increase tool life while machining part.
4. Implementing chip breaking while machining.

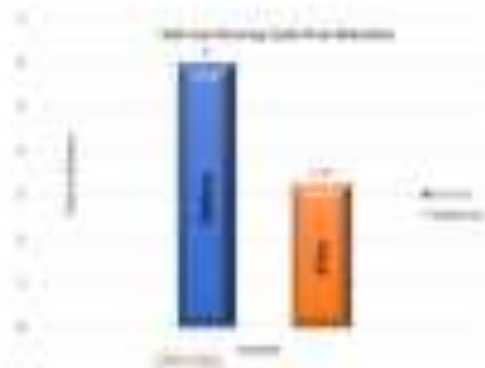


Procedure:

1. Created 3D Profile from an existing model.
2. Stock setup in Mastercam Software.
3. Toolpath created in Software.
4. Verified selected operations.
5. Automatic program generated (NC Code).
6. Successful machining Trial.
7. DMM checked.

Conclusion:

1. Cycle time was reduced to 185 seconds, almost reduced by 45%.
2. Tool life was increased successfully.
3. Chip breaking was added to machining.



Simulation Success story of Kalyani Technoforge Chakan

A Remarkable 45% Production Boost

Before: 5720 /month

After: 10560 /month



CNC Training For ITI Students



Offline Sessions



Online Sessions

Providing CNC training to programmers in ITIs



Corporate Trainings

Providing advanced technology training to Existing programmers Mfg. Engineer, Diploma, Degree and M.Tech Candidates in industry



Govt ITI, Aundh Pune CNC and CAM Training



- VPKBIET'S Baramati Professor's CAM Training

Turner star Making





- CNC Training to Programmers at Engineering cluster, Pune



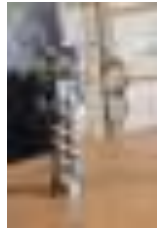
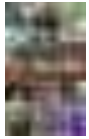
- With Hon. Manisha Verma ma'am IAS, Chief Secretary MH, Govt.



Advance CNC and CAM training for Bharat forge

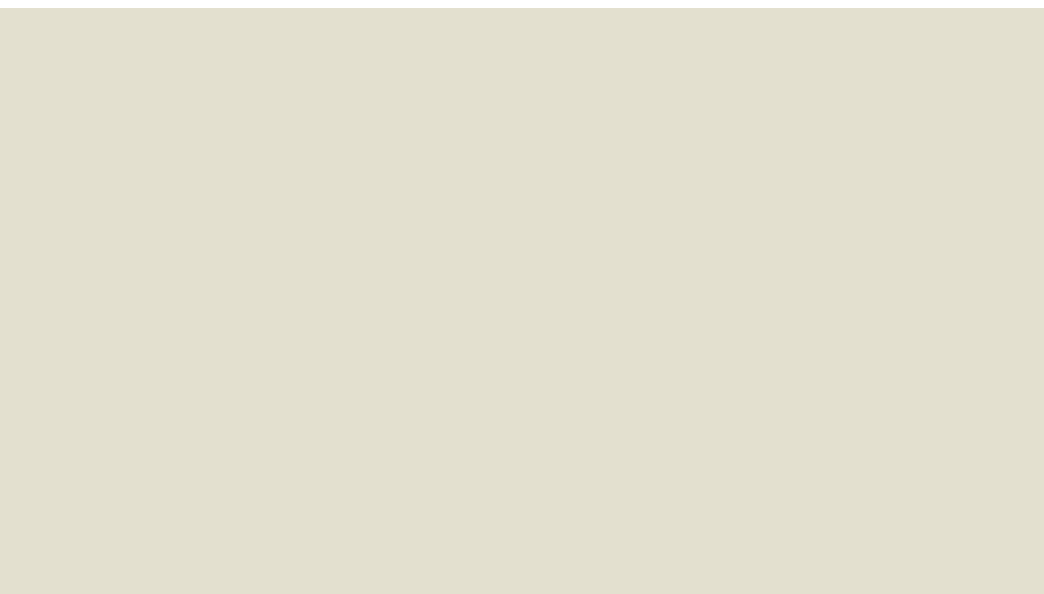


- Empowering Youth Through Skill Development



• Challenging Jobs

This Challenging product made on conventional machines









**Please Scan or click on link
for Seeing this Mfg. Art**

<https://youtu.be/BX0q03NOHCA?si=TjLBPqztWTX5I6E8>

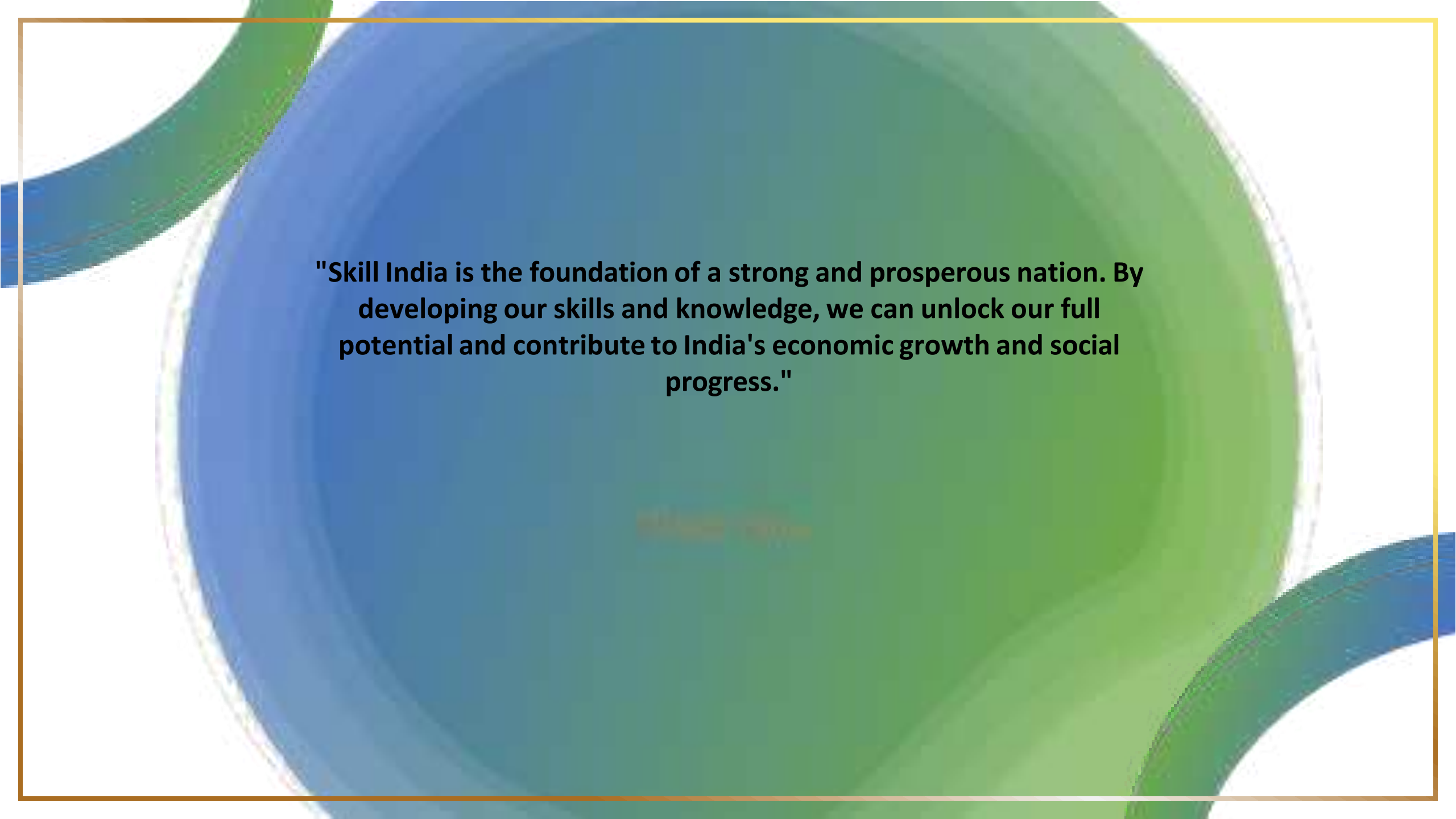




- Make in India logo MFG. at ITI Aundh, Pune

- Support and Guidance





"Skill India is the foundation of a strong and prosperous nation. By developing our skills and knowledge, we can unlock our full potential and contribute to India's economic growth and social progress."