

# ABHIJITH S

## CAREER OBJECTIVE

Obtain a position as team player in an organization where I can maximize my potentials to achieve my goals as well organization's goals.

## ACADEMIC QUALIFICATIONS

EXAM / DEGREE	NAME OF THE INSTITUTE	UNIVERSITY / BOARD	YEAR OF PASSING	PERCENTAGE (%)
M.Tech (Machine Design)	NMAM Institute of Technology Nitte, Udupi	VTU, Belgaum	1 <sup>st</sup> Sem	80.9
			2 <sup>nd</sup> Sem	80.5
			3 <sup>rd</sup> Sem	86.5
			4 <sup>th</sup> Sem	92.5
			2018	85.4
B.E (Mechanical Engineering)	Alva's Institute of Engineering & Technology, Mijar, Mangalore	VTU, Belgaum	2013	73.2
12 <sup>th</sup> Board	Mahatma Gandhi Memorial College, Udupi	Dept. of P.U.Examinations Board	2009	61.5
10 <sup>th</sup> Board	T.A.Pai English Medium High School, Kunjibettu, Udupi	KSEEB	2007	75.36

## PERSONAL SKILLS

- Communication
- Interview
- Python Programming
- Group Discussion
- Aptitude & Reasoning
- Career Guidance Awareness
- Leadership

## ADDITIONAL SKILLS

Languages	Python Programming, SQL
Software's	Solid works 2D &3D, Basic &Intermediate MS Excel,PowerBI

## WORK EXPERIENCE

- Presently working as Assistant Professor in St Joseph Engineering College, Mangaluru since 2 years.
- 3 years 8 months as an Assistant Professor in Alva's Institute of Engineering & Technology, Mijar, Moodabidri

- **1 year 9 months of Experience working as a Lecturer in Indira Shiva Rao Polytechnic, Udupi from 5-12-2014 to 24-09-2016.**
- **Guided students on Group Discussion & Interview Skills, Aptitude & Reasoning Skills, which is the vital part of Placements by training students of our college.**
- **Experience in Promotion Activities related to Engineering College.**
- **Worked as the part of NAAC Criteria 7, where I dealt with 7.1.5, 7.1.10 ,7.1.11 and also worked on NBA criteria 9**

<b>PROJECT DETAILS</b>	
<b>B.E Project Title</b>	<b>“PERFORMANCE TEST ON COMPRESSION IGNITION ENGINE USING WATER”</b>
<b>Overview</b>	<b>In this Study, Hydroxy gas (HHO) is produced by the electrolysis process of different catalyst (NaOH<sub>(aq)</sub>, NaCl<sub>(aq)</sub>) with various electrode designs in a leak proof reactor container. The aim of this experiment is to obtain an enhancement in combustion and reduction in exhaust emissions with electrolysis reaction without the need for storage tanks. In this experimental study, produced hydrogen gas along with oxygen (HHO, Brown’s gas) is fed to the intake manifold in order to achieve high efficiency.</b>

**PROJECT DETAILS**

<b>M.Tech Project Title:</b>	<b>“EXPERIMENTAL STUDIES, MODELING &amp; OPTIMISATION OF SURFACE ROUGHNESS IN MACHINING OF DIFFICULT TO MACHINE MATERIALS”</b>
<b>Description:</b>	<p>Surface roughness plays a vital role as it influences the fatigue strength, wear rate, coefficient of friction and corrosion resistance of the machined components and also quality indicator in manufacturing process. In this work turning experiments have been carried out at different cutting speeds, feeds and constant depth of cut. Experimental investigations of tool wear, surface roughness parameters, temperature and cutting tool vibrations on different cutting conditions have been carried out.</p> <p>In this work, machine learning algorithm which is sub area of Artificial Intelligence techniques namely Support vector machines which are widely used for classification and regression has been employed to predict surface roughness during high speed turning of difficult to machine materials. Further, a Grey Relational Analysis (GRA) optimization technique has been employed to optimize the multiple response characteristics namely surface roughness and tool wear based on experimental data obtained from turning experiments which gives an optimized machining parameters in rank wise system</p>

<b>Mini Project carried out:</b>	<b>“SURFACE ROUGHNESS EVALUATION DURING MILLING OF AZ31 MAGNESIUM BASED ALLOY USING STATISTICAL ANALYSIS AND ANN MODELLING”</b>
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**TRAINING UNDERGONE**

- Participated in National conference on **MACHINING OF DIFFICULT TO MACHINE MATERIALS: RECENT DEVELOPMENTS, ISSUES AND SOLUTIONS** funded by **ARMAMENT RESEARCH BOARD, DRDO** held in **NMAMIT, Nitte** during **3<sup>rd</sup>-5<sup>th</sup> Aug 2017**.
- Participated in **Two Days Faculty Development Programme on MODELLING, SIMULATION AND APPLICATION OF PIEZOACTUATORS**(TEQIP II funded) held in **NMAMIT, Nitte** during **March 20-21,2017**
- Participated in **Three Days Faculty Development Programme on THEORETICAL AND COMPUTATIONAL MECHANICS**(TEQIP II funded) during **January 19-21,2017**
- Completed a course on **Basic to Advanced MS Excel** in **Udemy Platform** on **June 2022**
- Completed a course on **Python Programming** on **Udemy Platform** on **May 27,2022**.
- Completed Training on **“Startup India learning program”** conducted by **UpGrad platform** on **March 22,2021**

<b>PAPERS PUBLISHED</b>			
<b>SL.NO</b>	<b>NAME OF THE CONFERENCE &amp; TITLE OF PAPER</b>	<b>PLACE</b>	<b>YEAR</b>
<b>1</b>	<b>The Institution of Engineers (India) 2017,32<sup>nd</sup> Indian Engineering Congress, Chennai</b>	<b>Hotel Le Royal Meridian, Chennai</b>	<b>December 2017</b>
	<b>SURFACE ROUGHNESS PREDICTION IN MACHINING MAGNESIUM BASED AZ31 ALLOY:A COMPARISON OF MODELLING TECHNIQUES</b>		
<b>2</b>	<b>International Conference on Research in Mechanical Engineering Sciences,RiMES- 2017</b>  (Published in MATEC Web of Conferences 144,Article no: 03006(2018))	<b>Manipal Institute of Technology, Manipal</b>	<b>December 2017</b>
	<b>SURFACE ROUGHNESS OPTIMIZATION IN MACHINING OF AZ31 MAGNESIUM ALLOY USING ABC ALGORITHM</b>		
<b>3</b>	<b>International Conference on Emerging Trends in Engineering,ICETE-2018</b>  (This paper has been accepted to publish in SPECIAL ISSUE OF IJET UAE SCOPUS INDEXED JOURNAL)	<b>NMAMIT, Nitte, Karnataka</b>	<b>May 2018</b>
	<b>MULTI-OBJECTIVE OPTIMISATION AND MODELLING OF SURFACE ROUGHNESS IN INCONEL 718 USING TAGUCHI GREY RELATIONAL ANALYSIS AND RESPONSE SURFACE METHODOLOGY</b>		

<b>ACHIEVEMENTS</b>
<ul style="list-style-type: none"> <li>• <b>Awarded with Academic Excellence for securing highest marks in M.tech 1<sup>st</sup> year Machine Design</b></li> <li>• <b>Won ASMA Cup for cricket held in PU level.</b></li> <li>• <b>Secured first place in variety entertainment held at Dr M.V.S.I.T ,Mijar in 2012</b></li> <li>• <b>Actively participated in the Udhog Mela held by A.I.E.T in Chikaballapura</b></li> <li>• <b>Secured 5<sup>th</sup> place in painting competition at Inter Alva's Fest Anveshan -13</b></li> </ul>

<b>STRENGTHS</b>
<ul style="list-style-type: none"> <li>▪ <b>Dedicated towards my work, Comprehensive problem solving abilities, Ability to deal with people diplomatically, Creative and hard worker.</b></li> </ul>

PERSONAL DETAILS	
Fathers Name	K. SRIDHAR SHETTIGAR
Contact Phone Number	+91 9108463711
Hobbies	Reading Newspaper, Traveling, Playing Cricket and exploring different skills.
Languages Known	English, Hindi, Kannada and Tulu.
Nationality	INDIAN

### Declaration:

I hereby declare that above information is correct to the best of my knowledge and belief.

Place: Udupi, Karnataka  
Date: 30-06-2024

(Abhijith S)

### REFERENCES:

- 1. Dr. Srinivasa Pai P**  
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- 3. Dr. Muralidhara**  
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