

Resume

AJIT MADHUKERRAO CHOUDHARI

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RESEARCH INTEREST

Man Machine Interface, Mechatronics, Smart Materials, Renewable Energy.

SUMMARY

- Currently working as an Assistant Professor in Mechanical Engineering at **Shri Guru Gobindsinghji Institute of Engineering & Technology**, Nanded.
- Experience of **Nine Years**, Teaching(4 years) & Industrial (5 years)
- Well versed with basic computer knowledge, basic technical and administrative skills

ACADEMICS

- **Ph.D.** (Under Technical Education Quality Improvement Program, **SGGSIE&T**, Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra, **Pursuing, Nov-2014**
Supervisor: Dr. J.V.L. Venkatesh
Ph.D.'s Thesis: Mechatronic System Design for the Disabled by using Man-Machine Interface.
Status: Thesis Submitted.
- **M.E. in Production** Engineering with **Distinction (CGPA 8.25** on scale of **10)** Government College of Engineering, Aurangabad, Maharashtra, India, **2013.**
Supervisor: Dr. Shyam A. Sonawane
Master's Thesis: Wear Behaviour of T-42 tool steel.
- **B.E. in Production** Engineering with **1st class (64.06%)**, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, **2005.**
Supervisor: Asst. Prof. Sachin V. Lomte
Bachelor's Thesis: Layout Design of Double Decker EMU.

PUBLICATION (S)

- 1) Choudhari AM, Porwal P, Jonnalagedda V, Meriaudeau F. An Electrooculography based Man Machine Interface for Wheelchair control. Biocybernetics and Biomedical Engineering. Elsevier BV.2019. <https://doi.org/10.1016/j.bbe.2019.04.002>.
- 2) Choudhari AM, Jonnalagedda V. "Bio-potentials for smart control applications." Health and Technology [Internet]. Springer Science and Business Media LLC; 2019 May 24; <http://dx.doi.org/10.1007/s12553-019-00314-7>
- 3) Choudhari AM, Jonnalagedda V. "EOG based MMI and MMI enablement GATI Wheelchair." INAE Letters [Internet]. Springer Science and Business Media LLC; 2019 (Under Review)
- 4) Ajit M. Choudhari., and J.V.L. Venkatesh, "Wireless Motion Control of an Intelligent Wheelchair Using Hand Gesture Recognition Technology, International Journal of Research, ISSN: 2348-6848, Pp-1240-1248, August, 2017.
- 5) Ajit M. Choudhari, and J.V.L. Venkatesh, "MMI controlled Mechatronic systems: A review on feature extraction Methods, ICAM-ASD2016, 2016. (**Best Paper Award**)
- 6) Ajit M. Choudhari., and Prof. S.A. Sonawane, "Wear Behaviour of T-42 tool steel", International Journal of Multidisciplinary Research ISSN: 2277-9302, Aurangabad, 65-68, March, 2013.

CONFERENCES & WORKSHOPS

- Won **First Prize** and **Best Paper award** in an International Conference on Advanced and Agile Manufacturing & Agile Software Development (**ICAM-ASD 2016**).
- One week Short Term Training Program on "**Brain Science &Technology: Tools and Techniques to understand Human Brain**" organized by **IIT, Delhi**.
- Two Week ISTE Workshop on "**Control Systems**", organized by **IIT-Kharagpur**

- One week Short Term Training Program on “**Computational Research Techniques using MATLAB (CRT 2016)**” organized by NIT, Warangal.
- One week Short Term Training Program on ‘**Biomedical Signal Processing**’ organized by Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded.
- Participated in an **International Conference** on Current trends and challenges in Management, Engineering, and Computer Applications.

P R O J E C T S

Ph.D: Mechatronic System Design for the disabled using Man Machine Interface (**Ongoing**)

Supervisor: Dr. J.V.L.Venkatesh

Description: Designing of the EOG/ EEG controlled wheel chair system especially for disabled and old age people.

Tools Used: Brain Signal Processing, Wheel chair system, MATLAB, Microcontroller, EEG device.

ME: Wear Behaviour of T-42 tool **Steel**

June 2012 – July 2013

Supervisor: Dr. Shyam A. Sonawane

Description: The purpose of this project is to study the impact of cryogenic treatment on wear properties of tool material, especially for the T-42 tool steel, It was found that cryogenic treatment imparted overall 32% increase in tool life compared to traditional heat treatment procedure for selected material for given working condition.

Tools Used: Cryogenic Treatment, Heat Treatment, Pin-On Disc machine, Taguchi Method

BE: Layout Design of Double Decker EMU

June 2004 – July 2005

Supervisor: Asst. Prof. Sachin V. Lomte

Description: The challenge of increased commutator load on local trains has been accepted as our problem and a new design of double story (Double decker) Electric multiple unit (Electric coach) is being proposed which offered **45% additional seating capacity, 60% more light** and **40% more ventilation** than existing system.

Tools Used: Survey, 3DMax, AutoCAD

P R O F E S S I O N A L E X P E R I E N C E [C H R O N O L O G Y]

1. **Asst. Prof** at S.G.G.S.I.E&T., Nanded from Aug, 2017 till present.
2. **Asst. Prof** at S.S.I.E.M.S., Parbhani from Aug, 2010 to June 2011.
3. **Assistant Manager-** Materials &Purchase, Akar Tools Ltd. July 2008 to August 2010.
2. **Sr. Engineer-** Materials at O.B. Automotive Systems India Ltd, Aurangabad, 2007 to 2008.
3. **Engineer- Corporate Materials** – Aurangabad Electricals Ltd, 2005 to 2007

E X T R A - C U R R I C U L A R A C T I V I T I E S

- Working as a free-lance trainer, coaching engineering and GATE subjects.
- Worked as resource faculty for UPSC & MPSC competitive exam training center
- Conducted Free Education Classes for economically & socially backward Students
- Volunteer for Natural Farming Movement and Azadi Bachao Andolan

R E S P O N S I B I L I T I E S S H O U L D E R E D

- Worked as Departmental Head- Mechanical at S.S.I.E.M.S., PARBHANI. (2010-2011)
- Worked as In charge Principal at Shri Shivaji Polytechnic College, Parbhani (2011)
- Worked as In charge Departmental Head- Materials at OBASIL, (2007-2008)

H O B B I E S

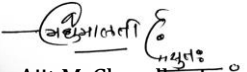
Poetry, Sketching, Music, Meditation, Social Activities.

P E R S O N A L D E T A I L S

- Date of Birth : 17th March 1980
- Languages Known : English, Hindi, Sanskrit, Marathi
- Gender/ Marital Status : Male. / Married
- Permanent Address : S/o Dr. Madhukerrao Choudhari, 'Radha Krishna' Bhuvan, St.Road, M.G.Marg. Parbhani, 431 401 [Maharashtra]

D E C L A R A T I O N

I hereby declare that all the statements made by me are true to the best of my knowledge and belief.
Date


Ajit M. Choudhari