



NACHAPPA PP

Last Updated on 25th Aug 2025.

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EDUCATION

BITS PILANI, Rajasthan

M.Tech. IN AUTOMOTIVE ELECT.
Jan 2025 - Ongoing | Rajasthan.

ACHARYA INSTITUTES

B.ENG. IN ELEC AND COMM.
MAY 2023 | Bangalore, India
Cum.GPA:8.55 / 78.00%

ACHARYA PU COLLEGE

PRE-UNIVERSITY COURSE
March 2019 | Bangalore, India
PCMB-COMEDK Rank: 12000
Cummulative.GPA:7.00

SAEC EDUCATIONAL TRUST

Grad. May 2017 | Bangalore, India
Percentage: 85.36%

LINKS

GitHub: // niki057

COURSEWORK

GRADUATE

SQL, Qlik Sense, Tableau
Open-Source Software Engineering
Data Modelling, Verilog-HDL
Cloud Computing
Evolutionary Computation
Machine Learning.

ADDITIONALS

Parameters Retrieval with OPC-UA
Operating Systems
LabVIEW, Tinker CAD
Functional Programming
UNIX Tools and Scripting

SKILLS

PROGRAMMING

ELECTRONICS:
C-Programming • Shell • Python •
PG-SQL, VHDL
Node Red • MATLAB • C++ • LATEX
Integration:
C • C++ • Assembly
Familiar:
• IOS • Android • MySQL •
PostgreSQL • Flutter • Fusion 360

EXPERIENCE

ACE DESIGNERS LTD. | OPERATIONAL EXCELL. & DIGITAL TRANSFORMATION

March 2025 - Present | Peenya, Bangalore, India

- Leading digitalization initiatives and operational excellence, applying **Theory of Constraints (TOC)** and process standardization to improve throughput and resolve production bottlenecks.

CENTRAL MANUFACTURING TECH INST. | PROJECT ASSOCIATE. - I

July 2023 – Feb. 2025 | Govt. of India, Bangalore, India

COGNIZANT TECHNOLOGICAL SOLUTIONS | AI ANALYTICS INTERN

Jan 2023 – April 2023 | Bangalore, India

- AI powered tool QlikView - the admin interface for the new Data Optimization and Dashboards.

BHARAT HEAVY ELECTRICALS LIMITED | PROJECT & RESEARCH. INT

May 2021 – Aug 2021 | Govt. of India, Bangalore, India

- Solar Cell Manufacturing, Assembly Lines and Shopfloors created stacked cells for Deploy and implementation in field for in-house solar plant.

AWARDS AND CERTIFICATIONS | COURSE CURRICULUM

- Best Outgoing Student of the Dept. of ECE AIT 2023.
- CMTI – Institute level Poster Presentation (2022). Chhatra Vishwakarma, Finalist for Awards for the year. (2017)

RESEARCH & PUBLICATIONS

1. Development of Low-Cost IIoT Solution for Smart Factories in MSME Industries: Utilizing Current Measurements for Machine and Factory Monitoring. | ¹T Narendra Reddy, ²Nachappa PP, ³Shri Prakash Vinod, ⁴Dr. Mervin A. ⁵H Shrikanth S. Rao | ^{1, 2, 3}CMTI | ^{4, 5}NITK Surathkal.
2. An Industry 4.0 Approach: Data Acquisition and Machine Monitoring for Welding Machines. | ¹T Narendra Reddy, ²Nachappa PP, ³Prasad P, ⁴Shri Prakash Vinod, ⁵Dr. Mervin A. ⁶H Shrikanth S. Rao | ^{1, 2, 3, 4}CMTI | ^{5, 6}NITK Surathkal.
3. Overall Equipment Efficiency Module and Losses Using Machine-to-Machine Connectivity for Smart Factory | Tadigotla Narendra Reddy¹, Nachappa P Ponnappa², Prakash Vinod³, Mervin A. Herbert⁴, Shrikantha S. Rao⁵ | ^{1, 2, 3, 4}CMTI | ^{5, 6}NITK Surathkal | ISSS Journal of Micro and Smart Systems, Volume 14, Pages 87–99, Published: 23 June 2025

Projects

1. AI-Based Smart Material Allocation for SCM – Achieved reduction in material shortages by 35% and procurement optimization by 12%.
2. MES Implementation at Bharat Electronics Limited (Dept. Fabrication - Components) – Led Planning & Deployment (2024 July – 25 January)
3. Development of Smart Tool Holder for CNC Cutting Parameters Monitoring in Real-Time along with Software Live and Analyzer.
4. Product Design - Designed about 50+ products spanning Quality, SCM, Assembly, Production Shopfloors and Planning functions.