

PERSONAL INFORMATION



CHANDAN M

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Sex: Male | Date of birth: 04/10/2001

Nationality Indian

EDUCATION AND TRAINING

2019–2023 Pursuing Bachelor of Engineering in **ELECTRICAL AND ELECTRONICS ENGINEERING** at **P.E.S COLLEGE OF ENGINEERING VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI (INDIA)**

The curriculum includes modules like Analog and Digital electronics, Electrical machines, Microcontroller, Electrical Measuring instruments, Op-amp's, Control system, Machine Design, Hybrid Electric Vehicle. **CGPA 8.0**

2017–2019 **DIPLOMA IN ELECTRICAL AND ELECTRONICS ENGINEERING, GOVT. POLYTECHNIC, KUSHALNAGAR**, Department of Technical Education, Karnataka (India) The curriculum includes modules like Analog and Digital electronics, Electrical machines, Microcontroller, Electrical Measuring instruments and industrial drives and control system.

Awarded as best student of the college Secured a 2nd rank in class **Percentage 77.87%**

2016-17 **SSLC - ST. FRANCIS XAVIER SCHOOL, KAMAGERE**, Karnataka Secondary Education Examination Board The curriculum included modules like Kannada, English, Hindi, Science, Social Science, Mathematics. **Percentage 77.37%**

PATENT

- **A NOVEL DESIGN FOR VISUAL FAULT LOCATOR (Grant Patent)- application No: 362873-001**
The novelty resides in the shape and configuration of the “VIRTUAL VISUAL FAULT LOCATOR” as illustrated. The Visual Fault Finder is a visible laser light source used to check continuity, locate breaks, poor mechanical splices and damaged connectors in fibre optic cabling.
- **A NOVEL DESIGN OF UV DISINFECTION ROBOT (published Patent) - application No: 202241046175**
The novelty resides in the shape and configuration of the “A NOVEL DESIGN OF UV DISINFECTION ROBOT” The main goal is to reduce the spread of viruses and bacteria on the surface as well as in aerosols while keeping human life safe. UV light with a wavelength of 254nm is necessary in a different field
- **WATER SURFACE CLEANING BOAT USING IOT (published Patent) - application No: 202341016402**
The Water Surface Cleaning Boat using IoT is a project aimed at effectively cleaning water surfaces using an automated boat integrated with IoT technology. The project can potentially benefit the environment and contribute towards sustainable water management practices.

BOOK PUBLISHED

- **BASIC MANAGEMENT SKILL AND ENERGY MANAGEMENT:** The book includes managerial essentials. Suggestions for energy conservation and risk management. **ISBN- 979-8888492352**
- **C-PROGRAMMING:** This reaches the knowledge about programming from beginner to advance in C-language **ISBN-13 979-8889092292**
- **UV-222NM:** This book specifies the knowledge about need of UV-222nm light in modern Word. **ISBN- 978-93-5667-521-6, ISBN 978-93-5667-519-3**

ARTICLE

- **NEED FOR 222 NANOMETRE UV- LIGHT FOR THE MODERN WORLD.** (Accepted for publication). The current research focuses on UV light's ability to deactivate viruses and bacteria. The main goal is to reduce the spread of viruses and bacteria on the surface as well as in aerosols while keeping human life safe. UV light with a wavelength of 222nm is necessary in a different field
- **DESIGN & FABRICATION OF A NOVEL METHOD TO DISINFECTION CORONA VIRUS THROUGH UV-C** (Accepted for publication). The current research focuses on UV light's ability to deactivate viruses and bacteria. The main goal is to reduce the spread of viruses and bacteria on the surface as well as in aerosols while keeping human life safe. UV light with a wavelength of 254nm is necessary in a different field

INTERNATIONAL CONFERENCE

- Participated in International Conference on Sustainable Materials, Manufacturing & Industrial Engineering. ICSMMIE-2022 on “**DESIGN & FABRICATION OF A NOVEL METHOD TO DISINFECTION CORONA VIRUS THROUGH UV-C**” on 02-07-2022.
- Participated in International Conference on Sustainable Materials, Manufacturing & Industrial Engineering. ICSMMIE-2022 on “**DESIGN & FABRICATION OF PORTABLE SPOT-WELDING MACHINE**” on 02-07-2022.

NATIONAL CONFERENCE

- Participated in National Conference on “**DEVELOPMENTS IN THE DOMAIN OF ENGINEERING SCIENCES**” (NCDDES-2022) Organized by **Siddhartha Institute of Technology**, Tumkuru and presented paper entitled “**Design and Implementation of a Low-Cost Power Factor Enhancer**” on 10-06-2022.

SOFTWARE & HARDWARE SKILLS

- **Software:** c-programming, Electrical Auto Cad, Mat-Lab & Simulink, lab-view, Or-cad, PLC, Adobe Photoshop, DIALux, Schneider Electricals circuit stimulation, Arduino IDE.
- **Cloud Software's:** Canva, Miro, On shape, Figma, MIT app inventor, Grab CAD, Intractable, Thinker CAD.
- **Machines:** Analog circuit design, Digital circuit design, DC-AC Motor controller using PLC, PLC & SCADA in Electrical substation, Drilling, Grinding, Cutting Machine, 3-D printer, Laser cutting, CNC
- **Hardware:** Computer Hardware, Electrical Industrial & Domestic Wiring, CCTV Installation & Networking.
- **Arts and Skills:** Clay Modelling, Drawing, wood carving, Paper cutting.

ACTIVITIES

- Participated in institutional level **SIH Competition** and shortlisted for national level **SIH (Smart India Hackathon)** organized by PES college of engineering and Indian government
In the Theme – non-invasive medical devices
Project – Clean and healthy India through Ultraviolet light
Role: Conceptualization, Team Lead, Supervision, Project administration, Resource Validation
- Participated in **6th NATIONAL LEVEL SCIENCE INNOVATION EXPO** organized by Dr. Ambedkar Institute of Technology, Bengaluru
In the Theme – Non-Invasive medical devices
Project – Clean and healthy India through Ultraviolet light
Role: Conceptualization, Supervision, Project administration, Resource Validation
- Participated in National level **Anveshana Science Expo**. Organized by Agastya international foundation and Synopsys. In bridge between high school students to the engineering student.
Theme & project - Autonomous virus killing Robot
Role: Team Lead, Conceptualization, Supervision, Project administration, Resource Validation

- **NSS captain (Govt. Polytechnic, Kushalnagara)** - *Participated in Madapattna NSS camp 2019*
- *Participated in Koppa-NSS camp 2018*

ACHIEVEMENT'S

- Taking part in the **FKCCI Karnataka Manthan – 2022 grand finals**, winning a seed fund of 1.5 lakhs, and being selected as one of the top 20 teams to compete.
- A startup and business plane computation
- Participate and won the Runners in **Business plan Shark Tank computation** organized by **Global Academy of Technical Education, Bengaluru**. On 03-06-2022
- A business plan presentation was given about a new start-up company that will be working on UV sterilisation.
- Participated and won the 1st Place in **Institutional Dance Competition** organized by **Govt. Polytechnic College, Kushalnagara**.
- Participated and won the 1st price in **Inter-Polytechnic Quiz Competition** organized by **JSS Polytechnic, Mysore** on 08-03-2020
- participated & won 1st place in the **mini project exhibition organized by PLUG IN -2023 & PES College of engineering**.

ACCOMPLISHMENT

- Participated in One day National level webinar on “**Careers in Arts**” (**History, Archaeology, Museology and Tourism**) organized by Department of History, VDC, Bengaluru-55, On 7th August 2021
- Participated in the one-day workshop on “**Udyami aagu, Udyoga Needu**” Be an Entrepreneur Become an Employer organized by “**DEPARTMENT OF INDUSTRIES AND COMMERCE**”.
- Participated in Workshop **MANTHAN BUSINESS PLAN 2022 KNOWLEDGE WORKSHOPS** Opportunity to enhance the skills sets enlighten the student on entrepreneurship quality **BUSINESS PLAN COMPITATION**.
- Participated in Webinar held on 6th September, 2021 on the theme “STI Institutions for “**ATMANIRBHAR BHARAT**” on India celebrating its 75th Year of Independence through “**Azadadi Ka Amrit Mahotsav**” The program organized in association with the **Department of Science and Technology, Government of India** under the state Science and Technology Program (SSTP) Division.
- Participated in One day National level webinar on “**Careers in Arts**” (**History, Archaeology, Museology and Tourism**) organized by Department of History, VDC, Bengaluru-55, On 7th August 2021

PROJECTS

- **THE MEDICAL MONITORING ROBOT:** The major objective to keep monitoring the patient remotely and supplying the medication participated & **won 1st place** in the mini project exhibition organized by **PLUG IN -2023 & PES College of engineering**.
- **AIR STERILIZING SYSTEM DESIGN AND FABRICATION:** The major objective was to keep people safe while reducing the transmission of viruses and germs through aerosols. The present emphasis of study is on the potential of UV light to destroy viruses and bacteria, says the World Health Organization (WHO).
- **DESIGN AND FABRICATION OF PORTABLE 3D PRINTING MACHINE:** The goal of this project was to build a portable 3D printer and to make additive manufacturing technology available to primary and secondary school students.
- **DESIGN AND FABRICATION OF PORTABLE SPOT WELDING:** The project's goal is to develop

- a portable spot-welding machine which can be accessed by college students as well as households.
- **AUTONOMOUS VIRUS KILLING ROBOT:** Using UV light deactivate the virus and the bacteria on the surface and in the air. We constructed robot to sterilizing the surface without human power maintaining the room hygienic
 - *Participated in National level ANVESHANA SCIENCE EXPO*
 - *Participated in NATIONAL LEVEL DR AIT SCIENCE INNOVATION EXPO*
- **PORTABLE WEATHER MONITERING SYSTEM:** Safety portable device for air pollution alert and weather monitoring device using sensors and microcontroller based
- **COMPACT SUBMARINE MOTOR STARTER:** Operating in long distance Controlling by using the Lora-technology and GSM technology
- **LINE FAULT & SUBSTATION AUTOMATION SYSTEM:** (*Final year project in Diploma*) Line fault detection system & IOT Based Alert and alarm system By Using distance relay, and current transformer and Lora Technology

INTERNSHIP

- Interned at the **SHIVANASAMUDRA HYDROPOWER PLANT** (*Asian continent's first hydropower plant*) in Mandya district on generation station operation and station maintenance.
- Took out the one-month internship at **KPTCL Vajmangla** in the Mysore district, which focused on the operation of a 220/66kV **SCADA-based transmission station and the control and maintenance of substations.**

WORK EXPERIENCE

APRAMEYA IT SOLUTIONS, Kushalnagar (OCT 2017- JAN 2019) - Part Time

Hardware Technician, worked as a Hardware Technician in the Aprameya IT Solutions.

Worked on – Computer hardware assemble and servicing, CCTV installation And Networking.

ZIL (Zakthi Innovation Lab) – (OCT-2022)

Technical trainer - To light up the minds of young students we provide the platform where each person come up with activity-based learning