

CURRICULAM VITAE

Hari Prasath Ram Kumar
Nanotechnology Engineer

Rome, Italy.

CAREER OBJECTIVE:

- ❖ Highly motivated and experienced Testing Engineer with solid academic background and deep understanding of technology and graduated student in MSc. Nanotechnology Engineering and BSc. Mechatronics Engineering. Advanced problem solving and a strong team player with excellent collaboration skills. Statistical analysis attitude and further enhance my learning in the field of technology. Time management and communication skills and able to work independently too.

EDUCATION:

- **SEPTEMBER 2018 – MARCH 2022**
Master's degree in Nanotechnology Engineering, Sapienza University of Rome.
Rome, Italy
Thesis: Fluorescence Detected Circular Dichroism in Enantiomeric Amide Compounds.
- **OCTOBER 2012 — APRIL 2016**
Bachelor's degree in Mechatronics Engineering, SNS college of technology/Anna University, Coimbatore, India
Thesis: Automatic Vehicle Head Light Control System Using Wireless Sensor.

PROFESSIONAL EXPERIENCE:

SEPTEMBER 2021 – PRESENT: Sapienza University of Rome
Rome, Italy.

THESIS STUDENT

- Research conducted on Fluorescence characterization of chiral and achiral compounds, at different concentrations, on glass and nanostructures with help of Hamamatsu compact mini spectrometer & Spec Evaluation Software.
- Enhanced photonics nanostructures sensing application.
- Analyzed the measurements results by using MATLAB software and Lumerical FDTD.
- Knowledge of Chameleon Ultra II laser, LDM 405 laser, optical experiments, and test analysis.

MARCH 2017- MAY 2018: ZF WIND POWER COIMBATORE PRIVATE LIMITED,
Coimbatore, India.

ENGINEER TRAINEE in Assembly, Testing, and validation department.

Project: Validation - Suzlon, Vestas, Gamesa, Atlas, 804,803,824 gear boxes

- Evaluated wind turbine gearbox products quality, testing, and product validation through data analysis, optimized process control measures.
- Analyzed the test results comparing to design objectives specification and examined the design validation, works with design, quality/reliability, and process engineering.
- Developed test framework for new products and control the implementation of process control measures.

- Prepared quality inspection report and supplier inspection report analysis, Check list and Work procedure sheets.
- Used FMEA methodologies, optimize the test flow for better quality and cost.
- Maintained the calibration related documents & Prepared new work instruction technical document and the monthly production report, OEE, loss hours, power of zero.
- Controlled and monitored HMI Dynamometer software.
- Handled the crane up to SWL 45T.
- **WHY WHY analysis.**
- **Improved 5S Activities and implemented new KAIZEN.**
- **Maintained test rig related electrical equipment. SMART2 for daily production planning.**

LEADERSHIP EXPERIENCE:

**SEPTEMBER 2021: Sapienza University of Rome
Rome, Italy.**

EVENT COORDINATOR

- **European Optical Society Annual Meeting**
- **Nano Innovation Conference and Exhibition**

SKILLS:

- **MATLAB**
- **LUMERICAL FDTD**
- **LABVIEW, CAN, JIRA**
- **Microsoft office**
- **AUTOCAD, CREO 3.0, SOLID WORKS**
- **Lean Manufacturing & Six Sigma**
- **Knowledge of OHSAS, ISO9001,14001,12100,45001**
- **Programming Language - C, C++, Python, Fanuc (CNC)**
- **Operating system - Windows XP, Linux.**
- **Knowledge of laboratory equipment's.**

ACHIEVEMENT:

- **Cleared Virtual round in NATIONAL GO-KART RACING CHAMPIONSHIP 2015 in India.**
- **Won the best INNOVATION and TRACTION AWARD in "NATIONAL GO KART RACING CHAMPIONSHIP 2015 in India.**
- **Lazio Disco scholarship winner.**

LANGUAGES:

- **TAMIL (MOTHER TONGUE)**
- **ENGLISH(C2)**
- **ITALIAN (A2)**

Place: Rome, Italy

Date :07/05/2022



Your Truly,

Hari Prasath Ram Kumar