**Apoorv Vats** Address:10 Vishal Vihar

Masters of Technology Saharanpur -247001 (U.P.)

POWER ELECTRONICS AND DRIVES Email: avats7163@gmail.com

# M.N.National Institute of Technology Allahabad Mob:+91-8948633674

**AREAS OF INTEREST:** Power Electronics and Drives, Electrical Machines, Virtual Instrumentation**,** Control Systems, Power Systems.

# ACADEMIC PROFILE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Educational**  **Qualifications** | **Year** | **College** | **Specialization** | **CGPA/%** |
| **M.Tech** | **2015** | **Motilal Nehru National Institute of Technology, Allahabad** | **Power Electronics and Drives** | **9.05** |
| **B.Tech** | **2013** | **College of Engineering Roorkee, Roorkee** | **Electrical and Electronics Engineering** | **71.22** |
| **Twelfth** | **2008** | **Saharanpur Public School, Saharanpur** | **Physics,Chemistry,Mathematics,English, Computer Science** | **76.67** |
| **Tenth** | **2006** | **Infant Jesus School, Saharanpur** | **Science,Mathematics,English,Computer Applications** | **67.66** |

**PROJECTS UNDERTAKEN**

* Speed Control of PMSM for E-Vehicle Application (Masters of Technology)

Focus: The main focus of this project is to develop mathematical model for close loop speed control of permanent magnet synchronous motor. The drive is tested on various standard reference cycle.

* Performance Analysis of DC-DC converter (Bachelor of Technology)

Focus: The aim of this project is to compare open loop DC-DC converter to close loop system. Simulation model of Buck, Boost & Buck-Boost converter is developed using Fuzzy Logic controller.

**MAJOR SUBJECTS STUDIED**

* Power Electronics
* Electrical Machines
* Basic System Analysis
* Control Systems
* Power Systems
* Switch Gear and Protection
* Networks
* Advanced Power Electronics
* Advance Electrical Machines
* Electric Drives
* FACTS
* Renewable Energy And Grid Integration
* Intelligent Control of Drives
* Advanced Control Systems

**ACADEMIC ACHIEVEMENTS**

* **CLAD certified** by National Instruments.
* **Topper** of the course on **MATLAB Programming for Numerical Computation** (90% marks) organized by the IIT Madras under **NPTEL online course** (total registered candidates- 11000).
* Achieved **2nd** **rank** during M.Tech 2015(PE & D).
* Successfully qualified GATE Exams held in year 2013, 2014, 2015.
* Secured All India Rank – **1435** in GATE Exam 2013 (total candidates appeared-**152381**).

# COMPUTERSKILLS

**Operating System**: WindowsXP/8/Vistas.

**Programming Languages:** C,C++, JAVA

**Softwares:** LabVIEW, MATLAB, Ansys Maxwell, Pspice.

**Certified Course/Trainings**

* **Certified LabVIEW Associate Developer** (CLAD) by National Instruments.
* 6 weeks training in Electrical Machines Manufacturing at “Bharat Heavy Electricals Limited, Hardwar”.
* 6 weeks Vocational Training at “Power Transmission Corporation of Uttarakhand Limited”.
* 4 weeks Vocational training in “MATLAB” from Cetpa – Infotech.
* 5 days Short term course on “Electrical Power Quality: Analysis and Improvement (EPQAI-2015)” organized by MNNIT, Allahabad.

**EXTRA-CURRICULAR ACTIVITIES**

* Proficiently designed and managed website for ‘International Conference on Power Control and Embedded System’ held at MNNIT, Allahabad in year 2014.
* Efficiently worked as Student Coordinator for ‘ICPCES 2014’ held at MNNIT, Allahabad.
* Volunteered for ‘SCES 2014’ held at MNNIT, Allahabad.
* Achieved Runner-up title in Inter School Table-Tennis Championship held in year 2002

**WORKSHOP AND SEMINARS ATTENDED**

* Attended FlagshipConference on “Building World Class Manufacturing”: Enhancing National Competitiveness on 28th September 2016 at Hotel Radisson, Sector 18, Noida, organized by CII.
* Attended Faculty Development Program on “Renewable Energy Systems” organised by the department of Electrical and Electronics Engineering at Ajay Kumar Garg Engineering College Ghaziabad on 3rd October 2015.
* Attended 1 week Faculty Development Program on “Innovative and Advance Practices in Power System & Control Engineering” sponsored by AKTU, Lucknow from May 02-07, 2016.

**Work Experience**

* Working as **Assistant Professor** (Electrical and Electronics Department) at Ajay Kumar Garg Engineering Ghaziabad (affiliated to AKTU Lucknow) since July-2015.
* Associated with **TIFAC-CORE** as **Scientific Officer** at Ajay Kumar Garg Engineering College Ghaziabad since July-2016.
* **Instructor of LabVIEW Core I & Core II** course at AKGEC-LabVIEW academy (**Best LabVIEW academy in India-2016 by National Instruments**).
* Delivered a guest Lecture on **Introduction to MATLAB** at **MAJESTIC Auto Pvt. Ltd.** , Noida.
* 6 months work experience on hardwares like **myRIO, USB 6009, myDAQ**, **NI ELVIS-II.**

**Subjects undertaken**

* EMEC-1
* EMEC-2
* Electrical Machine and Control.
* Basic System Analysis.

**REFERENCES**

|  |  |
| --- | --- |
| **Prof. Ravindra K. S.**  Professor, Electrical Engineering Department  MNNIT Allahabad  rksingh@mnnit.ac.in | **Prof. Subhi Purwar**  Professor and Head of Department  Electrical Engineering Department  MNNIT Allahabad |