

**BATTULA THARUN (07EE1027)**

Fourth year undergraduate,

B.Tech, Electrical Engineering

Indian Institute of Technology, Kharagpur, India.

Contact Info: Room no-C 318, RP Hall, IITKGP

Phone no: +91 8972647070

Email ID: [tharun.iitkgp@gmail.com](mailto:tharun.iitkgp@gmail.com)**ACADEMIC RECORD:**

Class/Year	Degree/Certificate	Institute/School, City	Performance
B. Tech (Hons.)	4 <sup>th</sup> year undergraduate, 7 <sup>th</sup> semester Department of Electrical Engineering	<b>Indian Institute of Technology, Kharagpur</b>	7.07 CGPA
Class XII 2007	Intermediate Public Examination, Board of Intermediate Education, Andhra Pradesh	Sri Chaitanya Junior Kalasala Kukatpally, Hyderabad	93.5%
Class X 2005	All India Secondary School Examination Certificate, Central Board of Secondary Education	<b>Jawahar Navodaya Vidyalaya</b> Karimnagar, Andhra Pradesh	89 %

**Scholastic Achievements**

- Secured All India IIT JEE Rank **649**- out of 5 Lakh students attended, i.e., in the top 0.1%.
- Secured **AIEEE Rank -891** out of about 6 Lakh students attended
- Obtained *Certificate of Merit* in National Mathematics Olympiad conducted by All India Schools Mathematics Teachers Association – 2003.
- Is a recipient of Merit-cum-Means (MCM) Scholarship for good performance, from IIT Kharagpur.

**SUMMER INTERNSHIP:**

Name of the Organization	Project outline and work
Place: <b>Turin, Italy</b> Duration: 5th May to 18th July, 2010. Professor: Dr. Roberto Merletti, Department of Electronics Politecnico di Torino, Italia.  Institution: Laboratory of Engineering of Neuromuscular System (LISIN)	<ul style="list-style-type: none"> <li>• Designed and implemented Neuromuscular Electrical Stimulator for the generation of Electromyographic signals</li> <li>• Implementation is done on Spartan 3AN FPGA device.</li> <li>• VHDL language and Assembly languages are used for the design of waveform synthesizer and controller respectively.</li> </ul>

**ACADEMIC PROJECTS****B Tech Project**

Project Title: **Model Order Reduction using the Multi-objective optimization using in Genetic Algorithm.**

Outline: Approximating higher order system to lower order system model with the objectives minimizing the error between given and reduced model for both time and frequency responses.

Software used: Matlab, Control System Tool box, Genetic algorithm tool box.

Guide: Prof. Jayanta Pal, Department Of Electrical engineering.

## Research experiences

- Second Year summer Training: Successfully completed summer training course on **Integrated Circuit Design** conducted by the **Advanced VLSI Design Laboratory**, IIT Kharagpur in the duration 4th May to 29th May 2009, under the supervision of *Prof. Pallab Das Gupta*, and acknowledged for Good Performance.
- [Completed] Designing Matlab Simulink model for Elevator Control System comprising the graphical user interface to reduce the jerks and process modeling in VHDL language.
- [Completed] Designing an embedded system **Voice Operated Switch**, for commands ON and OFF, by implementing filter banks in 8051 Micro controller as real time **Signal Processing** under the guidance of Prof.A.Routray.
- Designing the system model for adaptive control of variable speed wind turbine with the aim of maximizing the power from generator.
- Worked as a member of KRAIG (Kharagpur Robotics and Artificial Intelligence Group), under the guidance of technical heads, Robotix team, IIT Kharagpur.

### SKILL SET:

- **Software Skills:** C-language, Verilog, VHDL, Assembly language.
- **Engineering Tools:** MATLAB, Xilinx ISE, Cadence virtuoso, SPICE, Auto-CAD.
- **Operating Systems :** Windows, Linux, Mac OS
- **Languages:** English (Education), Telugu (Proficient), Hindi (Proficient).

### INTERESTS:

- Interested in development works based on practical engineering situations (Mainly if topics related to Electrical and Electronics Engineering)
- Interest in Analysis and Application of concepts with modeling and simulation of real world processes (using C, MATLAB, Xilinx etc.,)
- My Hobbies are swimming, Hockey, Football etc.,

### EXTRA CURRICULAR ACTIVITIES:

- Gold Medalist in Inter Hall Field Hockey 2008.
- Achieved Gold Medal in Open IIT Hockey in 2008.
- Was active member of National Service Scheme for two years.
- Taken part in various Hall cultural activities like Inter Hall Choreography, Illumination and Rangoli

### DECLARATION:

I consider myself to be a hard-working, work devoted, punctual and balanced individual capable of sustained commitment. I can fully dedicate myself to the tasks and work assigned to me and come up with better results. I vouch that the information furnished above are true to my knowledge.