Prudhvitej Immadi **110070054**
Electrical Engineering **UG Second**
Year Indian Institute of Technology, Bombay **Male**
Specialization: nil **DOB:**
15/07/1994

Examination	University	Institute	Year	CPI/%
Graduation	IIT Bombay	IIT Bombay	2012	9.00
Intermediate	Board of Intermediate Education, Andhra Pradesh	Sri Chaitanya Junior College	2011	97.00
Matriculation	Board of Secondary Education, Andhra Pradesh	Viswabharati High School	2009	95.6

Academic Achievements`

- Secured All India Rank-1 in IIT-JEE 2011.
- Bagged Silver medal in International Physics Olympiad 2011(IPhO) held in Bangkok, Thailand.
- Secured **All India Rank-2** in **AIEEE 2011** (B.Arch.) and **All India Rank-7** (B.Tech) among the 11 lakh students appeared for the test.
- Selected for National Chemistry Olympiad Camp, National Physics Olympiad Camp-2011 organized by HBCSE, **TIFR** among the top 35 students of the nation in the respective subjects.
- Secured All India Rank-1 in NSTSE 2010 and State third of Andhra Pradesh in SLSTE-2009 conducted by Unified Council.
- Secured **All India rank-2** in **AMTI 2009** conducted by Association of Mathematics Teachers in India, a group of mathematics teachers from **Chennai Mathematical Institute (CMI)** and was selected for giving a seminar on the occasion of **Ramanujan's birthday** in his birthplace.
- Achieved **AP grade (A**bsolute **P**erformance**)** in MA 105 (**Calculus**) - one of the **3 students** in a batch of 880.
- Got state third rank in A.S.Rao Talent Search Examination -2009, state third rank in A.I.M.Ed -2009.
- Pursuing minor in **Mathematics.**

Scholarships

- **Aditya Birla Scholar** -recipient of **Aditya Birla Group Scholarship.**
- **KVPY Scholar** – awarded the prestigious KVPY scholarship by **Department of Science and Technology (DST)** for the years 2009-2011 under SA stream**.**

Technical Projects and Workshops

Simulation and Compact Modelling of GaN HEMT for high power applications. *May'13 – present*

Guide: Prof. Swaroop Ganguly, EE Department, IIT Bombay.

- Compared different HEMT structures from perspective of high power applications and familiarized with Silvaco – Atlas software.
- Working on a simple model with Silvaco and acquired an understanding of compact modelling of a device with double channel with a back barrier.

Geometric Magneto-resistance of a Vanderpauw disc. (EE 432)

Spring'13

Guide: Prof. Dipankar Saha, EE Department, IIT Bombay.

- Studied the various geometries which exhibit Geometric Magneto-resistance including Hall plate, Corbino disc.
- Analyzed a Vander-pauw disc geometry with help of Vander-pauw method for determining the geometric resistance.
- Extended this method for qualitative characterization of elliptical configurations of both I-vdP and II-vdP

Digital Lab Project – Rapid Roll. (EE 224) *Spring'13*

Guide: Prof. Sourabh Lodha and Prof. M.B.Patil, EE Department, IIT Bombay.

- Developed a ball and table game with Graphic LCD interface and G Sensor as a remote control.
- Logic was developed using Verilog Code on Altera Quartus, input to the game was through G Sensor and inputs to LCD were interfaced through the Deo Nano FPGA Board.

Analysis of trends of Indian Export post liberalisation. (HS 411) *Spring'13*

Guide: Prof. K.Narayanan , HS Department, IIT Bombay.

- Analyzed the export trends of Indian market with perspective of world demand, composition of Indian export basket and reform policies by the government.
- Special emphasis on effect of Service sector, Merchandise exports and IT sector were investigated

Faculty team, Asian Physics Olympiad -2012

- Part of examination panel of Asian Physics Olympiad (APho) held in New-Delhi, India. Took part in question paper discussion alongside contingent leaders of 24 Asian countries. Graded theory part and was in arbitration session of 6 countries

Vijyoshi-Camp, Indian Institute of Science-2010

Attended Vijyoshi (Vignan Jyoti Shivir) at IISc , Bangalore in December,2010.

- Attended *Science Camp* at Indian Institute of Science Education and Research (**IISER**), Pune in summer 2010 as a part of KVPY-fellowship.
- Designed a **Self-Parking Bot** for Aagomani-2012 using sharp, TSOP sensors and Arduino microcontroller chip.
- Made a **Line Follower Bot** and a **RF controlled car** as a part of freshmen competition.

Technical Proficiency

- Worked with **8085 – Micro Controller Kit** and assembly language.
- Efficient in programming techniques and algorithms, worked with C++.
- Fluent in **Arduino coding.**

Positions of Responsibilities

- **Teaching Assistant** of **MA-105 (**Calculus**)**July '12-till date
  One among 10 sophomores selected to explain tutorials giving them a good insight of the subject.
- Coordinator, Electronics Club IIT Bombay May '12-till date
  Responsible for the activities and events of Electronics club, one of the oldest technical bodies of IIT Bombay.
- Maintenance Secretary, Hostel-13, IIT Bombay. August'12-till date
- Department Mentor (DAMP) – working for improvement in academic performance for a sophomore, under the guidance of Prof. V.M. Gadre.
- Coordinator ,Tech fest -2013

Extra-Curricular Activities

- Completed **Basic Mountaineering Course** at ABVIMAS, Manali. Summer '12
- Participated in **State level Science Quiz** conducted by **Jana Vignana Vedika (JVV),Govt of Andhra Pradesh** in 2007, 2008, 2009.
- Actively participated in **NSS-Group for Rural activities (GRA)** taking place in IIT Bombay