*Curriculum Vitae*



First Name **Ayyappa Sainath Prabhu**

Last Name **Tirumalasetty**

Address 3-6-440, 404, Himayatnagar, Hyderabad,

 Telangana (India)

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Date of Birth 24 August 1988

Marital Status Single

Nationality Indian

*Work experience*

 July 14 – Sept 14

 Nov 13 – Apr 14

**Internship - Analysis and load simulation of solar Inverter**

**Tool: MATLAB, MATLAB Guide**

*Bosch Power Tec (BOSCH), Böblingen, Germany*

* Created a Graphical User Interface(GUI) to evaluate reliability and life-time duration of photovoltaic inverter components.

 Major Tasks

* Performed hardware testing, assembly and software programming of photovoltaic inverters.

 Apr 10 – Oct 11

**Employee - Quality Assurance Tester (QA Tester)**

*Electronic Arts (EA), Hyderabad, India*

 Major Tasks

* Assured product quality by manual testing.
* Prepared test reports, verified and reported issues.

*Education*

**Master thesis - Optimal utilization of energy storage in combination with**

 Jan 15 – Aug 15

**renewable energy sources for households** (Grade - 1.7)

*Technische Universität Darmstadt, Darmstadt, Germany*

* Generated load profiles for German households.
* Applied Demand Side Management strategies - load shifting and peak shaving to reduce Peak to Average Ratio and to save energy costs.
* Evaluated state-of-art energy storage technologies such as Tesla Powerwall.
* Created a Graphical User Interface (GUI) using MATLAB Guide.

Tool: MATLAB

 Oct 11 – Aug 15

**Master of Science (M.S) in Electrical Power Engineering** (Grade - 2.39)

*Technische Universität Darmstadt, Darmstadt, Germany*

**Bachelor Thesis - Design of DC to DC converter using Zero Voltage Switching**

 Oct 08 – Apr 09

**Tool : Pspice**

*Jawaharlal Nehru Technological University, Hyderabad, India*

**Bachelor of Technology (B.Tech) in Electrical and Electronics Engineering**

 Aug 05 – July 09

*Jawaharlal Nehru Technological University, Hyderabad, India*

*Projects and presentations*

* Presented paper highlighting the “Applications of Glass Fiber Reinforced White Cement in engineering constructions” in JK White Innovative Design Challenge organized by JK White Cement company held at IIT Kanpur.

 Feb 09

* Executed a working model of “Railway electric traction” at Padmashri Dr.B.V.Raju Institute of Technology which received a special appreciation from former President Dr A.P.J Abdul Kalam during his visit.

 Aug 08

*Personal skills and Competences*

* Collaborated in multicultural environment.

 Communication skills

* Presented papers and led seminars at technical events Promethean 2k8(Mar 08) and SPRAVA 07 (Oct 07).

 Organisational skills

* Organized paper presentation for technical event Promethean 2k8 held at Padmashri Dr.B.V.Raju Institute of Technology.
* Arranged renewable energy sources quiz for technical event SPRAVA 07 held at Padmashri Dr.B.V.Raju Institute of Technology.

 Leadership skills

* Trained new employees during my internship and my work at Electronic Arts.
* Motivated team members in completing tasks on time.
* Simulation tools - MATLAB, PSpice, FEMAG

 Computing Skills

* Programming Language - C
* Others - LaTeX, MS Office, MS Visio

 Languages

|  |  |
| --- | --- |
| English  | Proficient user (C2) |
| German | Independent user (B2) |
| Spanish  | Basic user (A2) |
| Telugu  | Mother tongue |
| Hindi  | Proficient user (C2) |

*Extra-curricular activities*

* Jogging, cooking, reading about science fiction, playing sports.

Hyderabad,

Ayyappa Tirumalasetty