

Krishna More

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Design Engineer with M.Tech in Power Electronics, Machines & Drives having 2 Years of industrial experience in field of LED Drivers, SMPS & Robotics.

EDUCATION

M.Tech (2014-2016) – EE (Power Electronics, Machines & Drives) Institute of Technology, Nirma University, Ahmedabad with 7.47 CGPA.

B.E. (2009-2013) - Power Electronics Vishwakarma Government Engineering College, Ahmedabad with 6.95 CGPA.

H.S.C. (2009) & S.S.C. (2007) from St.Xavier's High School, Mirzapur, Ahmedabad with 70.00% & 84.00% respectively.

ACADEMIC PROJECTS

Final Year B.E. Project

Closed loop speed control of DC motor using Cosine Firing Scheme.

Final Year M.Tech Project

Design & Development of Direct Vector Control Scheme with Parameter Estimation for Induction Motor Drive.

Presented & published a research paper titled “A New Approach of Offline Parameters Estimation for Vector Controlled Induction Motor Drive” in 7th International Conference on Advances in PEIE-2016 organized by ACEECom in Bengaluru.

WORK EXPERIENCE

Company: Melux Control Gear Pvt. Ltd (<http://www.melconindia.com>) (August 2016 to present)

Job Designation: Design Engineer (R&D)

Job Profile & Responsibility: Design, assemble, test & troubleshoot dimmable & non-dimmable constant current LED drivers for street lights, flood lights, bulb, tube lights, bay-light, down-light. Design SMPS. Simultaneously, prepare design documents as per ISO 9001:2015. Communicate with production technicians, quality engineers, purchase officer for completion of projects within time. Conduct EMI-CE test, EFT Surge test & Environmental Chamber Test. Well conversant with ISO 9001:2015 standard, BIS safety standard IS-15885 (Part-2 Section-13) & standard related to above reliability tests.

Projects Undertaken

SMPS - 100W using Fly-back Topology, PFC using valley fill circuit, secondary side regulation with TOP JX Family IC (Power Integration IC).

SMPS - 36W using Fly-back Topology, primary side regulation with Link HP Family IC (Power Integration IC).

LED Driver for Bay-light - 100W using Fly-back Topology, Active PFC, secondary side regulation with TOPJX Family IC.

Projects Undergoing

LED driver for Bay-light – 150W, 200W using PFC, LLC Resonant Converter with PFS & LCS Family IC of Power Integration

SMPS – Different wattage categories.

Company: Mechatron Robotics Academy (<http://www.mechatronrobotics.com>) (September 2013 – March 2014).

Job Designation: Robotics Engineer

Job Profile: Prepared Line Follower Robot, Light Follower Robot, Wall Follower, Obstacle Avoider, Humanoid, MRA (Mobile Robotic Arm), Hexa-Bot.

SIMULATION & DESIGN TOOLS

PI Expert Online Design Tool, MATLAB, PSIM, ORCAD, MagNet, MotorSolve, KEIL μ VISION, ARM CORTEX-M4 Controller Programming (Embedded C) (STM32F407vG), LATEX, MICROSOFT VISIO.

AREAS OF INTEREST

AC & DC Drives, Power Electronics Converter, UPS, SMPS, Solar Applications, Robotics.

LEADERSHIP & ACTIVITIES

- 1) Participated in workshop on **ARM CORTEX-M4 Controller “Exploring 32-Bit Microcontroller for Power Electronics Applications”** and **“Implementation Of Power Electronics Systems”** conducted by Department of Electrical Engineering, SVNIT, Surat in 2015.
- 2) Participated in workshop on **“Electronic System Design”** conducted by Electrical Engineering Branch, Department of Electrical Engineering, Institute of Technology, Nirma University in 2015.
- 3) **Third position** in **Robo-Wars** at **MIND-BEND** – National Level Competition organized by **SVNIT-SURAT** in 2010-11.
- 4) Reached **Quarter-Finals** in **Robo-Wars** at Techfest 2011-12, organized by **Indian Institute of Technology (IIT)-Bombay**.
- 5) Participated in various **Robotics Events** held at Vishwakarma Government Engineering College in 2009-10.
- 6) Participated in **“Robotics Workshop”** for making wired and wireless robots in 2009-10 and for designing **Micro-Controller** based autonomous robots in 2011-12, organized by Vishwakarma Government Engineering College.

INTERPERSONAL QUALITIES

- 1) Can take initiative and work under pressure.
- 2) Can be a good team member and team leader, especially in situation where tough and high stress goals have to be achieved.
- 3) Have tenacity to work patiently and always keep a positive attitude.
- 4) Can handle criticism positively.

PERSONAL PROFILE

Date of Birth	28 January, 1991.
Gender	Male.
Languages Known	English, Hindi, Marathi & Gujarati.
Permanent Address	237, Laxminagar Society, B/h Meghaninagar Last Bus-Stop, Meghaninagar, Ahmedabad, Gujarat-380016.
Marital Status	Single.