

NINAD HEMANT WATWE

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To work in new product development and engineering machine design, research and development roles

Education Details

MASTER OF TECHNOLOGY | 2016 | INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

- Major: Design Engineering, Mechanical Engineering with Research Assistance (CPI: 9.56/10)
- Masters Project: Design and Testing of Cable-Driven Robotic Device for Surgical Simulator Interface
- Studied experimental and theoretical courses related to design and control of machinery with courses in machine design, control and optimization, strength of elements, stress and fracture, finite element methods, vibrations, kinematics and dynamics of machines along with courses in robotics and controls, along with working in the institute alumni relations committee and mentorship programs

BACHLOR OF ENGINEERING | 2013 | PVG'S COLLEGE OF ENGG, UNIVERSITY OF PUNE

- Major: Mechanical Engineering (Marks 70.19%)
- Degree projects: Design of Machining Fixtures for HMC in Pump Casing Manufacturing
- Elective courses included operations research, energy audit, robotics and industrial automation along with additional projects, training programs, working in department student committees and festivals

Work Experience

PGET, PRODUCTS | MAHINDRA SUSTEN | JULY 2016 - PRESENT

- Headed a team of engineers and technicians in developing automatic robotic module cleaning equipment, IoT enabled waste management devices and systems and solar module trackers for utility scale plants

RESEARCH ASSISTANCE | ENGINEERING DRAWING HALL, IIT BOMBAY | JULY 2013-16

- Involved in instructional and teaching activities along with administrative activities in running an engineering drawing course for all freshmen, and developmental activities in the lab including introduction of CAD software, 3D modelling and FDM 3D Printing

Skills & Abilities

TEAMWORK, MANAGEMENT AND LEADERSHIP

- Worked in teams throughout the career in various roles including leadership roles such as managing and scheduling a team of 40 teaching assistants in the Engineering Drawing Hall, IIT Bombay

SOFTWARE AND PACKAGES

- Proficient in 3D modelling (esp. Solidworks), FEA package ANSYS, scripting languages (viz. MATLAB, SCILAB), embedded programming languages (Arduino, emb. C), typesetting in LaTeX and using MS Office

COMMUNICATION SKILLS

- Proficient in public oratory in English and Marathi along with excellent English composition and writing skills, fluency in Hindi & Marathi along with elementary knowledge of German