Brahm Prakash Mish

Email: bpmishra92@gmail.com

Github: github.com/brainwave

EDUCATION

NATIONAL INSTITUTE OF **TECHNOLOGY. TRICHY**

B.Tech in Mechanical Engineering Graduated in May 2014 Cumulative GPA: 8.99 / 10.00

COURSEWORK

GRADUATE

Robot Motion Planning Concurrent Embedded Systems Analysis of Numerical Algorithms Human-Computer Interaction Design Control System Design **Optimal Estimation** Robot Manipulation

UNDERGRADUATE

Computer Aided Design Applied Electronics and Electrical Engineering Mechatronics Computational Fluid Mechanics Finite Element Analysis Corporate Communications Professional and Business Writing

SKILLS

PACKAGES/FRAMEWORKS

Tensorflow • Numpy, Scipy • OpenGL MATLAB and Simulink • ROS • V-Rep • LATEX • CATIA COMSOL, ANSYS • Eagle

PROGRAMMING

C++ • Pvthon • C Embedded C • Ladder Logic R • SQL • VB.Net • Excel VBA Shell Scripting (Bash)

EXPERIENCE

BOLT 3D PRINTERS PRIVATE LIMITED

DESIGN AND IMPLEMENTATION ENGINEER

December 2015 - September 2016 | Chennai, India

- Led a 6 person team that designed and built an industrial grade slicer software for an SLA 3D Printer. A slicer converts 3D model of an object into stacks of 2D cross sections suitable for printing.
- Optimized the slicer to bring down its execution time from 5 minutes to 0.35 seconds on a standard model.
- Designed and Prototyped a novel, continuous SLA 3D Printer. Researched for patentability.
- Experience in software and hardware aspects of new design.
- Hands on experience in Design for Conformance, Manufacturability, Serviceability and Reliability.

THOROGOOD ASSOCIATES

BUSINESS INTELLIGENCE AND ANALYTICS CONSULTANT

July 2014 - August 2015 | Bangalore, India

- Supported and Improved Data Analytics packages for leading European Industries
- Undertook programming projects for TG Management Information and Planning System (MIPS).

ROBOTICS AND MACHINE INTELLIGENCE GROUP

HEAD, PROGRAMMING AND EMBEDDED SYSTEMS

NIT Trichy, India

- September 2013 May 2014 | Trichy, India
 Undertook individual and group projects in experimental robotics (listed
 - Hands-on experience with CAD, CAM and CAE process on novel contraptions.
 - Mentored sophomors and led teams that participated in national level Robotics competitions in engineering colleges across India.

MOLECULAR DYNAMICS LAB, IIT BOMBAY

JUNIOR SUMMER RESEARCH FELLOW

May 2013 - August 2013 | Mumbai, India
• Built a cluster of 40 computers and performed massively parallel Molecular Dynamic simulations.

CENTRAL TOOL ROOM & TRAINING CENTRE

ENGINEERING INTERN

May 2012 - July 2012 | Bhubaneshwar, India
• Designed, Manufactured and Assembled a novel 'W' engine.

REPRESENTATIVE PROJECTS

YEAR	Prof./Team	Project Title
2016	Dr. Sonia Martinez	Parallelization of Motion Planning Algorithms
2016	Dr. R. Bitmead	Control System Design for a mobile unstable wheeled robot
2014	RMI	Designed and Fabricated a Low Cost 3-D Printer
2012	RMI	Design, Fabrication and Reliability Testing of a High Speed
		Autonomous All Terrain Vehicle
2012	RMI	Interfacing the Kinect with TI Pandaboard using Robot
		Operating System (ROS)
2011	RMI	Inverse Kinematics of a 3-DOF Sketching Arm
2011	Individual Projects	Maze Solvers, Tracking Robots, etc.