Brahm Prakash Mish

Email: bpmishra92@gmail.com

Github: github.com/brainwave

EDUCATION

NATIONAL INSTITUTE OF **TECHNOLOGY. TRICHY**

B.Tech in Mechanical

Engineering

May 2010 - May 2014 Graduated in May 2014 Cumulative GPA: 8.99 / 10.00

UNIVERSITY OF CALIFORNIA **SAN DIEGO**

GRADUATE STUDIES

Sep 2016 - Sep 2017 Credits Earned: 21 / 36

COURSEWORK

GRADUATE

Robot Motion Planning Concurrent Embedded Systems Analysis of Numerical Algorithms Human-Computer Interface 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

PROGRAMMING LANGUAGES

Go • C++ • Pvthon C • R • SQL • VB.Net Sharepoint • Excel VBA Shell Scripting(Bash)

PACKAGES/FRAMEWORKS

Tensorflow • Numpy, Scipy MS SQL • SSIS • SSAS

ROS • OpenGL • OpenMP MATLAB, Simulink • V-Rep • Vim • LATEX

SPOKEN LANGUAGES

English • Hindi • Oriya Tamil

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.

THOROGOOD ASSOCIATES

BUSINESS INTELLIGENCE AND ANALYTICS CONSULTANT

July 2014 - August 2015 | Bangalore, India

- Support and Enhancement of Production Systems for British Sugar
- EPOS Data Analysis and Reporting for Japan Tobacco International
- Development and Support projects for Thorogood 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.
 - 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 Linux Beowulf cluster using 40 itanium processors
 - Implemented massively parallel monte carlo simulations

CENTRAL TOOL ROOM & TRAINING CENTRE

ENGINEERING INTERN

- May 2012 July 2012 | Bhubaneshwar, India CAD/CAM/CAE of Volkswagen V Engine Parts
 - Process Optimization of ISRO PSLV C-11 Rocket components

REPRESENTATIVE PROJECTS

YEAR	Prof./Team	Project Title
2017	Dr. Rajesh Gupta	Realtime Air Traffic Control System
2016	Dr. Sonia Martinez	Parallelized Motion Planning in Randomized Environments
2016	Dr. R. Bitmead	Control System Design for a mobile unstable wheeled robot
2014	RMI	Designd 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.