# 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

# 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

#### PACKAGES/FRAMEWORKS

Tensorflow • Numpy, Scipy MATLAB. Simulink • ROS OpenGL • OpenMP Microsoft SSIS • SSAS V-Rep • LATIA CATIA COMSOL, ANSYS • Eagle

#### **PROGRAMMING LANGUAGES**

Go • C++ • Python

C • Embedded C • Ladder Logic

R • SQL • VB.Net • Excel VBA

Shell Scripting

## **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	Prot./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.