C#

CentOS

Brahm Prakash Mishra

Email: bpmishra92@gmail.com

Github: github.com/brainwave

EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY, TRICHY

B.Tech in Mechanical

ENGINEERING

May 2010 - May 2014 Cumulative GPA: 8.99 / 10.00

UNIVERSITY OF CALIFORNIA SAN DIEGO

GRADUATE STUDIES Sep 2016 - Sep 2017 Credits Earned: 21 / 36

SKILLS

PROGRAMMING

C++ • Embedded C • Go Python • Shell Scripting(Bash)

FRAMEWORKS

Tensorflow (learning) • ROS Gazebo • OpenGL • OpenMP MATLAB, Simulink • GNU/Linux CATIA • Microsoft BI Suite (SQL, SSIS, SSAS, SSRS)

LANGUAGES

English • Hindi • Oriya Tamil (Spoken)

COURSEWORK

GRADUATE

Robot Motion Planning Control System Design Optimal Estimation Analysis of Numerical Algorithms Human-Computer Interface Design Research Embedded Software Systems (Distributed and Concurrent)

UNDERGRADUATE

Applied Electronics and Electrical Engineering Mechatronics
Computer Graphics Software Design Computational Fluid Mechanics Finite Element Analysis
Corporate Communications

FXPFRIFNCF

BOLT 3D PRINTERS PRIVATE LIMITED

DESIGN AND IMPLEMENTATION ENGINEER

December 2015 - September 2016 | Chennai, India

- Led a 6 person team that 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.

 C++
- Used OpenGL and Algorithm optimizations to reduce slicer execution time from 5 min to 0.35 seconds on a standard model.

 OpenGL, Boost
- Firmware and controller design for continuous SLA 3D Printer. AVR C, Python
- Researched for patentability helped frame provisional specification.

THOROGOOD ASSOCIATES

BUSINESS INTELLIGENCE AND ANALYTICS CONSULTANT

July 2014 - August 2015 | Bangalore, India

- Support and enhancement production systems for Silver Spoon, a British Sugar subsidiary
 MS BI Suite
- Responsible for prevention and resolution of critical system errors.
- EPOS Data Analysis and Reporting for Japan Tobacco International. SQL, .Net
- Development and Support projects for Thorogood Management and Information Planning System MIPS.

ROBOTICS AND MACHINE INTELLIGENCE GROUP (RMI)

PROGRAMMING TEAM LEAD

NIT Trichy, India

September 2013 - May 2014 | Trichy, India

- Undertook individual and group projects in experimental robotics (below)
- Hands-on experience with CAD/CAM/CAE processes on novel contraptions.

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. OpenMP. C++

CENTRAL TOOL ROOM & TRAINING CENTRE

ENGINEERING INTERN

May 2012 - July 2012 | Bhubaneshwar, India

- CAD/CAM/CAE of Volkswagen V Engine Parts. CATIA
- Process Optimization of ISRO PSLV C-11 Rocket components. Stochastic QC

REPRESENTATIVE PROJECTS

Υ	'EAR	Prof./Team	Project Title
2	2017	Dr. Rajesh Gupta	Realtime air traffic control system in Golang
2	2016	Dr. Sonia Martinez	Parallelized Motion Planning in randomized environments
2	2016	Dr. R. Bitmead	Control system design for a mobile unstable wheeled robot
2	2014	Dr. K. Pannirselvam	Rapid Desktop Metal Forming
2	2014	RMI	Low cost 3-D printer using automobile parts
2	2013	RMI	Chasis design for a high speed ATV
2	2012	RMI	Kinect-Pandaboard interface Through ROS
2	2011	Individual Projects	Maze Solvers, tracking Robots, etc.