

TECHNICAL SKILLS

- Distributed Systems Programming, Concurrent System Programming, Real Time Embedded System Software, Parallel Numerical Solvers, Control System Design, Path Planning under uncertainty
- **Languages/Packages:** C++, Embedded C, Go, Python/Numpy/Scipy, Tensorflow, MATLAB/Octave, BASH scripting, Latex

EMPLOYMENT

Lead Implementation Engineer **Bolt 3D** **Dec 2015 – Sep 2016**

- Design and Prototyping of Continuous SLA 3D Printer

Business Intelligence and Analytics Consultant **Thorogood Associates** **Jun 2014 – Aug 2015**

- BI system support, enhancement for British Sugar
- EPOS Data Analysis and Reporting systems for Japan Tobacco International

Research Intern **Indian Institute of Technology, Bombay** **Summer 2013**

- Monte Carlo Simulations of a long-chain polymer melting on Silicon substrate

Engineering Intern **Central Toolroom and Training Center, Bhubaneswar** **Summer 2012**

- Design and Simulation of a Volkswagen V-Engine part
- Process optimization for production of ISRO C-11 Rocket Engine

EDUCATION

Tiruchirappalli, Tamil Nadu **National Institute of Technology, Trichy** **May 2014**

- B.Tech in Mechanical Engineering. GPA: 8.99
- Member of Robotics and Machine Intelligence Group

PROJECTS

- **Slicer for SLA 3D Printer** (<https://github.com/brainwave/bolt>) Converts 3D engineering designs into 2D cross-sections for printing C++, OpenGL, OpenMPI
- **Thorogood MIPS** Management and Information Planning system for Thorogood MS-SQL, Excel VBA, C#, VB Script, .NET, Sharepoint, web technologies
- **Robot Motion Planner** (<https://github.com/brainwave/RobotMotionPlanning>) Motion planning in randomized environments under user provided constraints MATLAB, Robotics toolbox
- **mlp** Control System Design for a robot (mobile inverted pendulum) Matlab, C++, Python, ROS
- **Desktop Stamping Machine** Control of Servo-driven sheet-metal press
- **Engine Design** CAD/CAM/CAE of Volkswagen W Engine components

AWARDS

- **Summer Fellowship** Indian Academy of Sciences
- **1st Place at Jawaharlal Nehru National Science Exhibition** Novel Wind Power Generation system
- **1st Place at Android One, Pragyan international Techfest** (Trichy) Robotics Debugging Event

- **Top Coder, Robotics and Machine Intelligence hackathon** (India) RMI NIT Trichy