

EDUCATION

- **Ph.D. Student at Dept of Energy Sc and Engg, IIT Bombay (July 2011-till date)**
- **M.S. in Industrial Engineering, Dec 05, Purdue University, West Lafayette, IN**
Graduate Index: 3.9/4.00
- **B.Tech. in Mechanical Engineering, May 02, Indian Institute of Technology (IIT), Guwahati, India**
Graduate Index: 8.7/10.00 Department Rank: 1/21

WORK EXPERIENCE

- **On Board of Advisors of our family entrepreneurial venture MadRatGames Pvt. Ltd. (Mar 09-till date)**
- **Supply Chain Analyst, Business Intelligence Branch, Business Operations Division, ALC, US Coastguard, Elizabeth City, NC, USA (Oct 08-Dec 08)**
 - Trained the inventory managers of USCG by taking workshops for improving supply chain management at USCG
 - Worked as a part of the team to come up with Key Performance Indicators and developed a process to track them
- **Supply Chain Analyst, Logistics Support Branch, Industrial Operations Division, ARSC, US Coastguard, Elizabeth City, NC, USA (Oct 05-Sep 08)**
 - Technical lead from USCG in the Implementation, Testing and Sustainment phase of Click Parts supply chain tool for US Coastguard in collaboration with Click Commerce and IBM;
 - Wrote efficient SAS codes run daily in USCG SAS DataWarehouse to map the data needed for the Click Parts tool from USCG legacy systems
 - Performed Data Validation, Functional and System Testing of the Click Parts 6.7.3 tool
 - Created a process for data synchronization between the USCG and Click Parts databases
 - Optimized forecasting parameters to improve forecast accuracy for USCG parts
 - Developed a simulation model for finding the optimal number of assets in the US Coastguard;
 - Worked on improving inventory management at Hazardous Materials Section, EISD, ARSC
 - Implementing Long Term Maintenance and Planning Schedule for Clearwater Air Station using mixed integer programming models
 - Developed a program to calculate a snapshot of the details of Asset Visibility across the US Coastguard Supply Chain of the order of US \$ 1 billion.
- **Supply Chain Intern, Logistics Analysis Branch, Aviation Logistics Division, ARSC, US Coastguard, Elizabeth City, NC, USA (Jan 05- Jul 05)**
 - Understood the procurement process and developed a program to come up with various lead times involved to be an input for finding Reorder Levels for the US Coastguard wide critical items with varying statistical distributions for demand and lead times through Monte Carlo Simulation
 - Developed a Switchboard in Access 2000 using ADO and VBA for automating Reorder Level Project modules residing in SAS, Excel and Access
 - Evaluated AMPL, GAMS and SAS-OR for a large scale maintenance scheduling mixed integer programming problem
- **Graduate Research Assistant, US Coast Guard Inventory Mgmt., Purdue University, IN & Aviation Logistics Division, USCG, Elizabeth City, NC, USA (Jan 04 - Dec 04)**
 - Implemented an mixed integer programming model with a shortest path type network structure comparing an optimal strategy with a myopic one showing the impact of product modifications on US Coastguard Supply Chain planning
 - Implemented prototype optimization models for component repair mix and simulated alternate production control methods which would help in weekly capacity planning and production scheduling at USCG and show potential for savings of millions of dollars
- **Graduate Research Assistant, Veterinary Medical Disease Surveillance of Signs, Purdue University, IN & Banfield, the Pet Hospital, USA (Jan 03 - Dec 03)**
 - Assisted in building of a prototype Surveillance System using Statistical and GIS Software involving data mining of Banfield Animal Health Database having data from more than 350 pet hospitals all across USA. It aided in identifying significant space-time clusters for rapid detection of adverse health events in pets +
- **Research Assistant, Design of low cost Powered Wheelchair, IIT Guwahati & Artificial Limb Manufacturing Corp., India (Aug. 01 - May 02)**
 - Developed a low cost joystick speed and steering control circuit in IIT Guwahati, India (Project Sponsored by Ministry of Social Justice and Empowerment, India) with Dr. U.S. Dixit and Dr. S.K.Kakoty

COMPUTER SKILLS

- SAS Packages: Base SAS 9.1.3, SAS-Stat, SAS Advanced Macros, SAS Prog III
- Advanced Inventory Optimization Software: VMETRIC
- Supply Chain DRP Packages: Click Commerce Parts 6.7.5
- Optimization IDEs: GAMS, AMPL, Matlab, LINDO
- Simulation & Programming Languages: Arena, Automod, Atrisk, C, C++, Visual Basic, Java
- GIS Software: ArcGIS (Versions 3, 8, 9), ArcIMS (Web Based GIS), ArcLogistics Route, MapServer
- Other Software: SQL, MSOffice, AutoCAD, Perl, Javascript, HTML
- Operating systems: Windows, Sun Solaris, LINUX, UNIX, Ingres

DISTINCTIONS

- Secured 43rd rank in Indian Engg Services 2010 in Mechanical Stream in the first attempt.
- The first plank owner of Business Operations Division, US Coastguard (Dec 08) for successful implementation of Click Parts supply chain tool for USCG
- Received certificate of appreciation in Oct 07 for developing a simulation model for optimizing the assets required for the USCG supply chain
- Received certificate of appreciation in Apr 07 for implementing and sustaining a Long Term Maintenance Plan optimization model for USCG H60 Air Stations
- Semi-finalist in Burton D. Morgan Entrepreneurial Competition, 2003-2004 at Purdue
- Received Silver Medal for being the top student in Mechanical Engineering, IIT Guwahati, Class of 2002
- Best participant of the year 2000 award by SWASH organization in a personality development program.
- Captain of IIT Guwahati Table Tennis Team, 1999-2002 and won Intra-IIT Guwahati Table Tennis Trophy 3 years in a row.

OTHER ACTIVITIES

- Attended a Lean Event workshop in July 07 to implement 5S methods in the machine shop in ALC, US Coastguard
- Attended Vipassana meditation camp in Oct 06
- Attended a series of entrepreneurial workshops in Oct 03 to manage business plan, finance, marketing, intellectual patenting, legal issues as a part of the Burton D. Morgan Entrepreneurial Competition, 2003-2004 at Purdue University
- Simulated a game on the lines of *Who wants to be a Millionaire* in the IIT Guwahati cultural festival in Jan 01.