

# Sharuk Tharun Senthil Kumar

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## EDUCATION

### Stevens Institute of Technology

M.E. in Systems Engineering. 3.57/4.00

*Coursework:* Project Management, Fundamentals of System Engineering, Simulation and Modeling, System Supportability and Logistics, Systems Architecture and Design, Decision and Risk Analysis, Human Spaceflight, Systems Integration

Hoboken, NJ

December 2019

### Valliammai Engineering College

B.E. in Mechanical Engineering

*Coursework:* Fluid Dynamics, Heat and Mass Transfer, Thermodynamics, Finite Element Analysis, Mechatronics, Statistics and Numerical Methods, Gas Dynamics and Jet Propulsion, Manufacturing Engineering

Kanchipuram, India

May 2017

*Awards and honors:* Highest GPA in Department (spring 2014)

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## EXPERIENCE

### Barnes & Noble Bookstore, Stevens Institute of Technology

*Supply Chain & Procurement Assistant*

Hoboken, NJ

August 2018 – December 2019

- Processed and stocked \$1k – \$4k in products, processed up to \$15k in sales during peak season, maintained inventory, managed inventory-catalog system, and answered up to 20 customer calls daily to keep store running smoothly
- Trained 4 employees to use Oracle, Core Sense, and Accelerator inventory software and managed bookstore 10 times per semester in manager absence as well as solely coordinating 1 – 2 special events per month

### NTPC Tamil Nadu Energy Company Limited

*Annual Overhaul TG Coordinator Intern*

Chennai, India

June 2019 – August 2019

*NTPC Tamil Nadu Energy Company Limited is an energy production company.*

- Examined 500-MW turbine and generator to test quality and determine severe defects using root cause analysis to be cleared for operation as part of annual overhauling process in conjunction with preventive maintenance team
- Analyzed disaster caused by a small crack on turbine blade, figuring out how blade could work until new one arrived, saving 2 months of time and \$1 million in potential losses

### Bharat Heavy Electricals Limited

*Quality Engineer Intern*

Tiruchchirappalli, India

May 2017 – August 2017

*Bharat Heavy Electricals Limited manufactures boilers and other materials needed for power production plants.*

- Inspected quality and performance limits of samples of new materials for products to ensure they reached acceptable standards after establishing statistical confidence, reducing product costs by 10% and increasing product life by 6%
- Analyzed data collections from 7 – 12 product samples daily and prepared reports with findings for manager
- Performed 2 – 3 product quality checks weekly on assembly line floor before transport to customer

### Golden Rock Railway Workshop

*Mechanical Engineer Intern*

Tiruchchirappalli, India

May 2015 – August 2015

*Golden Rock Railway Workshop manufactures and repairs parts for railway wagons.*

- Performed quality checks on 4 – 5 wagons and 3 – 5 wagon wheels on alternating days under supervision of Senior Engineer
  - Managed inventory for 600 – 1k products, confirming purchase and sales orders match materials and products in stock
  - Tested 5 prototypes against standard products and reported findings to develop 100% confidence in prototype operation
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## PROJECTS

### Active Debris Removal Technology Using CubeSat for Mega Constellation Satellites

August 2019 – December 2019

- Created mission architecture and simulated process of removing debris from outer space by implementing new method into existing data satellite technology for master's project, concluding that such a mission could be feasible

### Inventory Model for Campus Bookstore

August 2018 – December 2018

- Prepared an inventory model for bookstore using Excel and Python to increase profits by at least 10% and to develop thresholds to reorder and limit inventory to reduce downtime of no sales
  - Increased profits by 30% more than expected after 1-month implementation of inventory model during non-holiday season
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## SKILLS & INTERESTS

**Technical:** *Software:* MS Office Suite (Word, Excel, PowerPoint, Project, Outlook, Access, Visio), SAP; *Analysis & simulation:* Tableau (basic), MATLAB, LabVIEW (basic); *Programming languages:* C++ (basic), SQL (Basic), Python; *Design software:* Auto CAD (basic), Solidworks (basic), Vitech CORE 9, CATIA (basic), DOORS (basic); *Operating systems:* Windows, MacOS  
**Areas of expertise:** Requirements analysis, Systems modeling, Validation and test plans, Systems development life cycle, Supply Chain Management, Forecasting, Procurement, Inventory Management, Lean Six Sigma tools, Systems Engineering, Project Management, Systems objective, Validation and verification, MBSE, Integration, Simulation and modeling  
**Certifications:** Supply Chain Analytics and Operations, Six Sigma Green Belt (LinkedIn learning)