

# Dhritiman Roy

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github.com/ProShark94

## Experience

**Program Planning Intern**, NASA Glenn(AETC) – Cleveland, Ohio, USA May 2024 – Aug 2024

- Optimized trajectory tracking by developing control software in Dymos using a CNN-based model, achieving 81.6% mAP and 95% cosine similarity, while reducing energy consumption.
- Created a technology roadmap for physics-based, data-driven packages, reducing setup time by 30% and improving user efficiency, saving 5 hours per user per deployment.

**Product Manager**, Cisco – Bangalore, KA, India Jun 2022 – Dec 2022

- Led the development and deployment of a cost-effective Arduino-based chip scanner in 90 days, reducing setup costs by \$1.2M. Enhanced setup efficiency by integrating the scanner with Power BI for real-time analytics and seamless system deployment.
- Facilitated design thinking and agile methodologies, empowering cross-functional teams to deliver a scalable chip scanning solution that enhanced data classification and reduced development time by 6 months.

**Product Owner**, Siemens Gamesa Renewable Energy – Brande, Denmark Apr 2019 – Apr 2022

- Managed end-to-end optimization of hydraulic systems for direct-drive offshore turbines, achieving a \$93,000 profit margin per turbine by leveraging data-driven decision making.
- Optimized supply chain models for vendor selection and pricing, resulting in a 12% reduction in the Levelized Cost of Electricity (LCOE) per turbine.
- Accelerated prototype development cycles to less than 12 months by implementing iterative stakeholder feedback and integrating lifecycle scoping through Teamcenter PLM.

**Advanced Engineer**, Siemens Gamesa Renewable Energy – Brande, Denmark Jan 2018 – March 2019

- Reduced lead times by streamlining vendor selection processes through design competitions and quality audits, enabling faster Go-To-Market (GTM) strategy execution.
- Coordinated compliance testing for DNV-GL certification, reducing certification time by 6 months and ensuring adherence to global standards for New Product Development (NPD).
- Developed a real-time dashboard for the Bill of Materials (BOM), increasing visibility and boosting stakeholder confidence, while improving cross-functional collaboration.

**System Analyst**, Siemens – Bangalore, KA, India Jul 2015 – Dec 2017

- Managed scrum processes as Scrum Master, accelerating feature prototyping by 2-3 months through agile and Kanban methodologies.
- Redesigned hydraulic pitch systems using topology optimization and additive manufacturing, reducing system weight by 50% (1.3 tons to 650 kg) and saving \$8,000 per turbine.
- Enhanced wind farm optimization models using MATLAB and Simulink, achieving a 33% improvement in load and control efficiency.

## Key Competencies

- **Skills:** Process Optimization, Agile Management, Capacity Expansion, Cross-Functional Collaboration, Data-Driven Decision-Making, Supply Chain Optimization, Design Thinking, Control Systems, System Optimization.
- **Software Proficiency:** MATLAB, Dymos, Power BI, Tableau, JIRA, Python (PyTorch, Keras, Flask), Teamcenter PLM, SAP, ROS, GCP, Azure, MySQL, and MongoDB.

## Education

**Master of Science in Industrial & Systems Engineering**, University of Illinois GPA 3.9/4  
Urbana-Champaign – Urbana, IL, USA

**Bachelor of Engineering in Mechanical Engineering**, R.V College of Engineering – GPA 8.32/10  
Bangalore, KA, India

## Achievements & Certifications

- **Achievements:** Winner of Quarter for Innovation (SGRE 2017), Exceptional Facilitator in Procurement (SGRE 2019), MVP Corporate Social Responsibility award (SGRE 2021), Runners-up (Cisco Ideathon 2022).
- **Certifications:** Professional Scrum Master, Key Expert-Yuken Hydraulics, SAP IBP for supply chain.