

NIHAR N. GARG

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Detail-oriented professional with experience managing technical projects, producing high-value products and providing data-driven solutions. Passionate about working at the intersection of engineering, data, technology and design.

EDUCATION

Columbia University

M.S. in **Mechanical Engineering**, Concentration in **Robotics and Control**

New York, NY

Expected 2022

Purdue University

B.S. in **Mechanical Engineering**, GPA: 3.4 / 4.0

West Lafayette, IN

May 2016

Professional Associations: American Society of Mechanical Engineers (ASME)

PROFESSIONAL EXPERIENCE

Princeton Engineering Services - Project Engineer

Plainsboro, NJ

- Led over 25 technical projects (>\$50 MM), from conceptual design through completion *Jan 2018 - Present*
- Performed heating and cooling load calculations to determine design criteria and size system components
- Supervised a multi-disciplinary team of 5 engineers, generated scope reports and created design drawings

Charles River Development - Associate Systems Analyst, SaaS Operations

Indianapolis, IN

- Managed global operations for and provided tier 2 back-end support to SaaS clients *Jul 2016 - Nov 2017*
- Built and maintained automation workflows on job schedulers and configured database changes using SQL
- Initiated 80+ process improvement strategies which led to a 10% increase in productivity within my team

Kaiser Aluminum - Intern Project Engineer

Kalamazoo, MI

- Spearheaded 5 projects to improve safety and quality monitoring of plant operations *May 2015 - Aug 2015*
- Devised interim corrective actions and developed long term strategies to prevent recurrence of incidents
- Implemented time sensitive changes to reduce downtime by 15% and presented results to management

PROJECTS & PRODUCTS

COVID-19 Data Visualization - Self-directed Project

nihargarg.com/covid

- Analyzed and translated large, complex data into actionable information using Tableau and Python *Apr 2020*

Smart Bin Remover - Engineering Capstone Project

Purdue University

- Designed and manufactured a fully autonomous delivery robot using Arduino *May 2016*
- Headed programming, integration and testing of "smart" technologies to remove all user interaction

Project LiT - HackIllinois Hackathon

University of Illinois Urbana-Champaign

- Produced code to incorporate all components of a wearable breathalyzer using Arduino *Feb 2016*
- Sought feedback from stakeholders, identified new features and won *top 5 best hack out of 216 projects*

Project Green Light - BoilerMake Hackathon

Purdue University

- Collaborated on the design and build of a beacon which encourages social interactions *Oct 2015*
- Conceived innovative uses using engineering design process and won *top 5 best hack out of 84 projects*

HandiMate / Toys to Physics to Design (T2P2D) - C Design Lab

Purdue University

- Evaluated CAD software based on ease-of-use and organized 3D printing workshops *Aug 2014 - Dec 2014*
- Constructed and animated toy prototypes using a robotics kit and everyday craft materials

SKILLS & CERTIFICATIONS

Programming: Python, C, MATLAB, Wolfram, HTML, JavaScript, Git | **Data:** MS Excel, SQL, Tableau

Product Design: CATIA, SolidWorks, 3D Printing | **Systems Design:** AutoCAD, NI LabVIEW, Trane 3D Plus

Licenses & Certifications: Engineer in Training (EIT), LEED Green Associate, ITIL 4 Foundation

LEADERSHIP & TEAM BUILDING

Task Force on Inclusion and Belonging - Ambassador

Columbia University

- Cultivated an equitable campus culture and learned to communicate across differences *Sep 2020 – Present*

Boiler Gold Rush International - Team Leader

Purdue University

- Mentored and fostered a sense of belonging in a group of 15 international students *Jan 2013 - May 2015*
- Introduced cross-cultural training programs to promote diversity and inclusion among fellow team leaders