

NIHAR N. GARG

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Engineering consultant with 4+ years of experience managing technical projects across several industries, producing complex, high-value products and providing data-driven solutions to cross-functional teams. 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 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 at 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 for best hardware hack

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 for product using engineering design process and won top 5 for best hack

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

Purdue University

- Evaluated CAD software based on ease-of-use and facilitated 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, HTML, JavaScript, Git, Bash | **Data:** MS Excel, SQL, Tableau

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

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

LEADERSHIP & TEAM BUILDING

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