

# SHREYAS BANAIT

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## SUMMARY

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Controls Engineer with 3+ years of experience in designing, programming, and commissioning automation systems for HVAC, industrial automation, and BMS. Skilled in PLC, HMI, SCADA, VFDs, and DCS systems. Experienced in system integration, troubleshooting, and Root Cause Analysis for continuous improvement. Strong in automation strategies and cross-functional collaboration.

## CONTROL EXPERIENCE

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**Veregy** - Columbus, OH - Intern

May 2024 - August 2024

- Assisted in the successful onsite startup and commissioning of controls for various HVAC systems, ensuring proper functionality and compliance with project specifications, which contributed to efficient system implementation
- Collaborated with Veregy controls engineers with programming and developing detailed drawings, ensuring precise system design and accurate implementation, which facilitated effective troubleshooting throughout the project life cycle
- Contributed in the creation and development of graphical user interfaces for building automation systems on high-value projects exceeding \$1 million, significantly enhancing user interaction, optimizing system control, and contributing to overall project success
- Facilitated effective communication and collaboration with subcontractors by clearly conveying project requirements, coordinating tasks, and addressing any issues, ensuring that all work was executed efficiently and aligned with project goals and standards

**Yokogawa India Limited** - Bangalore, India - Engineer I

February 2022 - December 2022

- Led the redesign and implementation of PLC (Allen-Bradley Logix) and HMI systems for Shell Offshore projects, analyzing existing systems and conducting testing, resulting in a 10% reduction in downtime and a 5% improvement in system reliability
- Managed IO hardware engineering and conducted Factory Acceptance Testing (FAT), meticulously ensuring compliance with project specifications and standards, which led to a 9% increase in equipment efficiency and enhanced overall system performance
- Programmed and configured SCADA systems to execute control strategies, overseeing subsystem integration efforts, integrating 12% more components than previous projects, enhancing system reliability and reducing downtime” for brevity and avoiding repetition
- Played a pivotal role in establishing productive vendor relationships, leading to improved response times from vendors by 15%, all while engaging in cross-functional team collaboration to achieve project goals and objectives effectively.

**Johnson Controls** - Pune, India - Intern

May 2021 - January 2022

- Collaborated with cross-functional teams to proactively identify and critically address development issues during new projects, resulting in a 10% reduction in development time through thoughtful implementation streamlined processes
- Led detailed engineering for global BMS projects from the India Engineering Center, ensuring compliance with country-specific standards and achieving a 12% improvement in project efficiency through effective design
- Collaborated effectively with cross-functional teams to integrate Open Blue Enterprise Manager into global projects with budgets exceeding \$100 million, ensuring seamless communication and alignment of objectives
- Leveraged an analytical mindset and in-depth market research to gain valuable insights into HVAC systems, facilitating informed decision-making and guiding strategic product development to better meet market needs and enhance competitive positioning

**Semicon Electrodyne** - Pune, India - Control Engineer

June 2019 - April 2021

- Developed and customized HMI graphics for various clients, ensuring compliance with industry standards like NEC, and incorporating PLC programming using Modicon and GE Proficy, resulting in a 25% increase in system efficiency
- Designed and integrated ladder logic and switchgear control systems into HMI interfaces, improving automation efficiency by 30% and reducing manual intervention, which cut downtime by 20%
- Collaborated with cross-functional teams to digitize operational processes using Wonderware-based HMI systems, improving data visualization, leading to a 15% boost in client satisfaction and generating \$100K in new business from referrals
- Ensured compliance with regulations and managed the lifecycle of projects from concept to execution, optimizing resource allocation by 20% and saving \$75K in project costs through efficient process management

## EDUCATION

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**Northeastern University** | Master of Science in Engineering Management | Boston, MA

Expected: December 2024

**Savitribai Phule Pune University** | Bachelor of Engineering in Instrumentation Engineering | Pune, India

May 2021

## LEADERSHIP AND ACTIVITIES

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**Optimizing Telecommunication Network Design**

Northeastern University

- Effectively led a team in the optimization of telecommunication networks, resulting in remarkable improvements and substantial cost savings through the implementation of innovative strategies and meticulous attention to detail
- Developed and validated heuristic approaches for this project by leveraging manual calculations, Excel, and AMPL to analyze complex data sets and optimize processes, resulting in substantial cost reductions and improved efficiency

**Water Quality Impact: A Computational Visualization Study**

Northeastern University

- Utilized computational visualization techniques to investigate and analyze the relationship between water quality and its effects on aquatic ecosystems and human health, providing valuable insights and supporting informed decision-making
- Developed visualizations to analyze pollutant correlations with dissolved oxygen, assess water potability from abstract parameters, and evaluate agricultural pollutant impact on water quality, utilizing datasets and key parameters like pH and turbidity

## SKILLS

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- Project Management:** Problem-Solving, Communication, Data Analysis, Cost Management, Vendor Management, CRM
- Control:** PLC (Allen-Bradley Logix and Siemens), HMI, DCS, SCADA, HVAC, Automation, Maintenance, Visio, Commissioning
- Software:** Monday, Microsoft Project, Slack, AMPL, SQL, Python, Tableau Power BI, Excel, PowerPoint, Word, SAP