



Ayushi Priya

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Summary

Result-driven technology professional with experience in driving high-impact projects across renewable, energy, and industrial sectors. Managed new solution development initiatives, multi-country collaborations, and delivering AI-enabled solutions and process innovations for the power industry.

Professional Experience

Power System Project Engineer | ABB | Bangalore

- Integrated AI-driven solutions into Power System Study (PSS) projects to **automate** input data acquisition from offshore platforms and oil & gas refineries, and digitized documentation workflows, **achieving a 15%+ boost** in project turnaround time and significantly reducing manual errors.
- Led a **\$60,000** electrical system study for a floating LNG facility, delivering feasibility studies across a **50+ bus network** by collaborating with **10+ stakeholders** including project managers, engineering leads, and client teams across Japan and Singapore; navigated evolving requirements and offshore complexities to achieve high-quality execution within just **3 design cycles over 6 months**.
- **Resolved** a critical transformer inrush issue for Shell Australia through a **novel PSCAD-based analytical approach** that enabled reuse of existing equipment, avoiding costly component replacements and **reducing projected costs by 12%**; led a 7-month cross-functional initiative involving leadership and engineering teams to drive alignment and successful implementation.
- Enabled **early-stage design** decisions by analyzing **ABB's ACS6080 drive performance** using simulation data, ensuring grid compliance and **minimizing** harmonic distortion risks. Delivered insights that shaped filter design strategy, achieving <5% THD and aligning engineering output with regulatory and project objectives.
- **Spearheaded** ABB India's **first collaboration** with a Denmark-based Agri-tech company for a brownfield Power System Study, delivering Phases 1–2 within 2 months under a \$20,000 scope amid **legacy system complexities**; secured cross-geography stakeholder alignment, **enabling award of Phases 3–6** and **expanding project value to \$51,000**—driving revenue growth and strengthening ABB India's global delivery footprint.
- Led a **high-priority \$40,000** system study project for a Fertilizer production company in Algeria, **managing a 3-member team** to deliver 4 critical analyses within a compressed 10-day timeline. Streamlined collaboration with stakeholders across Italy and Algeria, optimizing task allocation by individual strengths. Delivered ahead of schedule with zero rework, earning direct client commendation for **agility, and execution excellence**.

Associate Project Engineer | ABB | Bangalore

- **Led end-to-end execution** of a critical electrical system analysis for the Calor LNG terminal, marking ABB India's **first technical collaboration** with ABB UK. Delivered insights that **reduced motor startup voltage dip by ~5%**, enhanced system stability, and aligned outcomes with client operations, earning an **NPS of 10** and reinforcing ABB India's capabilities in cross-country electrical system projects.
- **Led an electrical system study** for the Cameron LNG project to **assess** power reliability and equipment performance during startup and operations. Simulated contingency scenarios to ensure stability under abnormal conditions. Completed the **\$25,000 project on time and to quality standards**, helping ABB secure the **follow-up ZLNG project**.
- Collaborated on end-to-end feasibility studies for a \$90,000 **greenfield chemical plant project in Saudi Arabia**. Coordinated **effectively** to address **cross-cultural communication challenges** and frequent scope revisions from Chinese stakeholders. Enabled on-time, on-budget delivery of study outcomes, helping the client **avoid over \$25,000 in redesign costs** by proactively identifying system constraints.
- Collaborated cross-functionally with Bids and Engineering teams to win the **\$70,000 Power System Study package for an FPSO vessel**. Led technical evaluations, refined electrical design parameters, and delivered feasibility studies aligned with client specifications.
- Collaborated with Bids and Engineering teams to secure a **\$50,000 Barossa FPSO E-House package, one of ABB's largest in the segment**, by leading technical evaluations, optimizing equipment specifications, and tailoring system recommendations to meet client expectations and delivery milestones.

Management Trainee | ABB | Bangalore

- Developed **technical estimates** and **collaborated** with **cross functional teams for bid preparations** for 5+ power system study projects worth over **\$400,000**, ensuring accurate scope definition, competitive pricing, and alignment with client requirements—contributing to a ~25% improvement in win rate and enhanced project profitability
- Streamlined power system study processes by **standardizing load list** formats across multiple projects, improving data consistency and **reducing simulation setup time by 20%**.
- Executed feasibility studies for the \$25,000 HaiLinh project across a **20+ bus network**, ensuring accurate design and compliance through load flow, arc flash, harmonic, and protection analyses.

Bachelors Of Engineering- *MS Ramaiah Institute OF Technology* | Bangalore

Accomplishments

- **Global Team Excellence Award at ABB**: Won the Global Team Excellence Award for successfully upgrading the portfolio in the area of Renewable energy and Grid Integration Studies.
- **Publications**: Data Communication between DC Microgrids for Real-Time Converter Control’ in Springer journal: Designed and implemented an IoT-based real-time data acquisition system to enable efficient transfer of excess solar power between autonomous DC microgrids and EV charging stations. Optimized DC/DC converter control for improved energy management and system performance.
- **Hackathon ABB: Runner up** in IA Global HackSummit- November 2020
- **Awarded Bronze Medal** for academic excellence in the Electrical Engineering Department during undergraduate studies.

Extra-Curriculars

- **Volunteer at NSS, MS Ramaiah Institute of Technology (2015-2017)**. Organized blood donation drives, environmental campaigns, rural development programs, and health camp.
- **Volunteer at Bhumi(2021-2022)**.Volunteered with Bhumi to tackle educational challenges faced by underprivileged children during Covid-19 lockdowns. Progressed to **Coordinator**, leading efforts to establish **Bhumi’s Vizag Chapter**.
- **Event head at Amperage** : Organized and managed technical events, including quizzes, gaming competitions, and expert talks, at the 2018 Tech Fest for the Electrical Department, MS Ramaiah Institute of Technology. Coordinated guest speakers from IISc and industry leaders like Honeywell and Boeing.