

# MOHAMED ADIL AL SABRI

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## EDUCATION

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**University of Colorado - Boulder**  
*Bachelor's, Mechanical Engineering*

**August 2016 - May 2021**

**University of Pennsylvania**  
*Certification, Mechanical Engineering*

**January 2015 - December 2016**

## PROFESSIONAL EXPERIENCE

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**Electric Hydrogen**  
*Process Development Engineer*

**Boston, MA, USA**  
*January 2023 - Present*

- Enhanced process capability by 20% for green hydrogen production by developing scalable manufacturing processes through cross-functional collaboration and applying statistical tools like DOE and SPC.
- Integrated cutting-edge technology into production processes by working with suppliers and vendors, contributing to the transformation of manufacturing operations.
- Improved decision-making and stakeholder communication by providing actionable recommendations and communicating critical technical findings to engineering, management, and executive stakeholders.
- Developed robust data architectures for real-time data storage and visualization, enhancing project management capabilities and supporting data-driven transformation initiatives.
- Optimized process efficiency by applying large-data analysis in SaaS environments, supporting continuous improvement and effective problem-solving.

**Advanced Power Conversion**  
*Manufacturing Engineer*

**Colorado, USA**  
*January 2022 - December 2023*

- Enhanced product lifecycle management by 20% by utilizing hands-on machining and efficient feedback mechanisms during prototype fabrication and system-level integration.
- Reduced development iterations by 30% through collaboration with the R&D team by communicating feedback on tooling, fixtures, and manufacturing issues.
- Achieved 95% quality control compliance by analyzing and evaluating production units against customer and industry-specific standards during the production of advanced power units.
- Facilitated cross-functional transformation in manufacturing processes by working closely with teams to address manufacturing issues.
- Improved problem-solving capabilities in production processes by implementing systematic approaches to resolve manufacturing challenges.

**Advanced Power Conversion**  
*Application Engineer*

**Barre, VT, USA**  
*January 2021 - December 2022*

- Delivered over 20 custom design projects from concept to production for critical industries including EVs, aviation, aerospace, and power grids by leading project management efforts to ensure timely and efficient completion.
- Improved design accuracy and efficiency by 30% by generating structured CAD designs and quality-focused drawings using a PDM system to control and improve revisions.
- Enhanced cross-functional collaboration and material procurement efficiency in the production of custom designs and tooling by utilizing an ERP system to specify and procure necessary materials.
- Streamlined project transformation processes by interfacing closely with clients to design and develop power systems, implementing problem-solving strategies to address client needs and project challenges.
- Supported sustainable product lifecycle management through efficient project execution in power system design, applying project management skills to deliver projects that align with sustainability goals.

**CU BOULDER**  
*Engineering Staff*

**Boulder, CO, USA**  
*January 2020 - December 2021*

- Enhanced student engagement and skills in rapid prototyping by facilitating workshops and hands-on sessions for effective operation and maintenance of machines.
- Improved problem-solving and engineering design capabilities of students by providing guidance in creative engineering design approaches, aligning with principles of product lifecycle management.

- Fostered cross-functional collaboration and knowledge sharing by collaborating with faculty and staff in leading workshops and mentoring sessions.
- Contributed to the transformation of engineering education by implementing hands-on learning experiences that emphasize practical skills and real-world application.
- Supported the development of future project managers by encouraging leadership and management skills through mentoring engineering students, preparing them for roles in project management and SaaS environments.

## **NIST**

*R&D Engineering Intern*

**Boulder, CO, USA**

*January 2020 - December 2021*

- Enhanced the performance and noise reduction of atomic clock systems by designing and implementing a cost-effective isolation chamber using advanced sensors and testing methods, contributing to product lifecycle improvements.
- Improved project management and design efficiency by utilizing problem-solving skills to create a modifiable and manufacturable chamber, aligning with transformation goals.
- Facilitated cross-functional collaboration by working with teams to test and modify the chamber design, supporting SaaS project management methodologies.

## **SKILLS**

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**Skills:** CAD, SolidWorks, Operations Research, SQL, Branding/Brand Strategy, C/C++, Communications, Data Analysis, Data Structures & Algorithms, Financial Modeling, Interaction Design, JavaScript, JIRA, LLM, Machine Learning, Management, Market Research, PowerPoint/Keynote/Slides, Product Design, Product Management, React.js, Risk Management, SCRUM, UI/UX Design, Unreal Engine, Web Development, Python, Data Science, Operating Systems