

Certificate of Higher Education in Employability Skills LEVEL 4

Professional Career Development

Module code: BMSW4012

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Part 1

Ehab Hassen

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Hiring Manager

Safran Seats

Cwmbran, NP44 3HQ

Dear Hiring Manager,

I am thrilled to apply for the Senior CAD Architect role at Safran Seats. With a Mechanical Engineering degree and a passion for leading teams to create cutting-edge solutions, I am eager to bring my experience to a company that values sustainability, innovation, and collaboration as much as I do.

Over the years, I've had the privilege of managing talented engineering teams to deliver complex projects that meet both technical and business goals. By leveraging tools like CATIA V5 and Smarteam, I've streamlined design workflows and developed solutions that consistently hit cost and weight targets. Whether it's crafting detailed suite components or ensuring seamless integration across systems, I take pride in delivering work that exceeds expectations—whether for clients or certification bodies like Boeing and Airbus.

Some of the projects I've led include:

- Guiding multi-phase design efforts to integrate individual components into fully realized systems.
- Conducting and acting on design reviews to drive continuous improvement in engineering quality.
- Applying innovative material selection and manufacturing techniques to boost performance and reduce environmental impact.

What excites me most about Safran Seats is the company's persistent commitment to decarbonising the aviation industry. The opportunity to contribute to a greener future, while working within a team that values diversity and growth, aligns perfectly with my professional goals and personal values.

I'd love the chance to bring my technical expertise, leadership skills, and passion for sustainable engineering to Safran Seats. Thank you for considering my application. I look forward to the opportunity to discuss how my background aligns with your team's vision for the future of aerospace.

Best regards,

Ehab

Part 2

Ehab Hassen

23 Bodnant Close, St Mellons, CF3 0JL

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Professional Summary

Experienced Mechanical Engineer and Senior CAD Architect with a proven history of leading design teams to deliver innovative, high-quality aerospace solutions. Proficient in CATIA V5 and Smarteam, with expertise in designing and managing components that meet rigorous industry standards, including Boeing and Airbus specifications. Skilled in cost and weight optimization, team leadership, and delivering projects on time and within budget. Dedicated to advancing sustainable practices in aviation technology and fostering a collaborative work environment.

Key Skills

- Advanced proficiency in CATIA V5 and Smarteam for product design and development.
- Expertise in design for manufacturing and material selection.
- Proven ability to lead and mentor engineering teams to achieve project objectives.

- Strong understanding of aerospace certification standards and compliance requirements.
- Adept at conducting design reviews and integrating feedback for continuous improvement.
- Skilled in managing data transfer with customers and suppliers.
- Focused on achieving cost, weight, and performance targets in complex design projects.

Professional Experience

Senior CAD Architect

Safran Seats | September 2018 – Present

- Managed a team of five engineers to develop and refine product designs for premium aerospace seating solutions.
- Utilized CATIA V5 and Smarteam to create detailed models and manage product maturity throughout development phases.
- Conducted design reviews at critical project stages, ensuring compliance with engineering quality standards.
- Collaborated with clients and suppliers to facilitate efficient data transfers and resolve technical challenges.
- Monitored cost and weight targets, implementing design optimizations to meet project goals.
- Ensured seamless integration of components within larger product assemblies.

Mechanical Design Engineer

AirTech Engineering Solutions | June 2014 – August 2018

- Designed and modeled custom aerospace components, adhering to stringent manufacturing requirements and certification standards.
- Assisted in selecting materials and processes to enhance product durability and performance.
- Delivered projects on schedule, achieving a 15% reduction in production costs through efficient design practices.
- Supported junior engineers in developing technical skills and understanding design tools like CATIA V5.

Education

Bachelor of Science in Mechanical Engineering

Cardiff University, Cardiff, UK | Graduated: 2014

HND in Mechanical Engineering

Cardiff and Vale College, Cardiff, UK | Graduated: 2012

Certifications

- Certified CATIA V5 Professional
- Project Management Professional (PMP)

Projects

- **Advanced Seating Solution for Airbus A320:** Led the design and modeling of seating components, achieving a 12% weight reduction while maintaining structural integrity.
- **Next-Gen Seat Reclining Mechanism:** Collaborated with cross-functional teams to develop a mechanism that improved passenger comfort, resulting in adoption by a leading airline.

Professional Affiliations

- Member, Institution of Mechanical Engineers (IMechE)
- Member, Society of Aerospace Engineers (SAE)

Additional Information

- Languages: English (Fluent), Arabic (Fluent)
- Interests: Aerospace sustainability, mentoring junior engineers, and 3D modeling technologies.

Part 3

Full job description: Architect

Permanent, Full time

Salary: Between 40,000-45,000 a year

Cwmbran, NP44 3HQ

Key responsibilities will include:

- To aid in the development of new product designs and to structure the product in Smarteam.
- To manage the product maturity and development in Smarteam.
- To lead the design effort for packages of work or small programmes and to develop and manage packages of work within the team.
- To manage a small team of engineers.
- To maintain the engineering quality and integrity of the work produced within their work package.
- Responsible for the design and detail modelling of a variety of suite components in order to meet the Product Line requirements.
- Cost and weight targets must be monitored, managed and met.
- Senior CAD Architects will be expected to communicate effectively and professionally with customers and suppliers and to manage data transfer.
- Organise and participate in Design Reviews throughout each phase of the Product Line development process.
- Ensure that all necessary follow-up actions are taken.
- The selection and application of materials and processes appropriate to each design element and to provide assistance to other team members.
- Ensure the successful integration of each design element with the product as a whole
Follow and contribute to the development of the Best Practice guidelines as laid out in BMS documentation to check engineering packages.

Complementary description

Our in-house design studio co-creates the most innovative experiences in the sky with our airline customers and partners. Our dedicated engineering, production and in-service support facilities are integral to delivering a high-end quality product that we keep flying throughout the life of programme. We are fully supported by a wide range of support functions, from HR to Finance, to Business Development and Planning and Logistics, our team was built to give Safran Seats an end-to-end capability in house in the UK.

We focus on:

Our people

These are our four People Fundamentals that underpin everything we do at Safran:

- We believe in and fostering the conditions for diversity and inclusion to thrive
- We develop our colleagues skills and build opportunities so you can shape our future
- We create a trustworthy workplace to support you, as you dare to act and innovate
- We encourage collaboration and mutual support between you and your colleagues

So, you'll be supported every step of the way!

Sustainability

Our people are at the heart of our success, as we work together to achieve our mission: contributing to a safer and more sustainable aviation. We are tackling the biggest challenges in aerospace, with a commitment to work to decarbonise the industry by 2050.

Global Mobility

As part of the Safran Group, across our businesses we are market leaders in aerospace, defence and space; there is always potential for future mobility in the UK and internationally.

Job requirements

Qualified to a minimum of a degree in a Mechanical Engineering field. Alternatively, an HNC/HND or an equivalent qualification in a Mechanical Engineering field, with a demonstrated knowledge / experience in managing design teams responsible for developing design concepts into a fully developed engineered product.

Understanding of Boeing and Airbus specifications for equipment installation and certification.
Experienced user of CATIA V5.

Strong knowledge of design for manufacturing processes.

Knowledge of Smarteam.

A proven track record of effective design and on time / cost delivery of projects.

No candidate will meet every single desired qualification.

If your experience looks a little different from what we've identified and you think you can bring value to the role, we'd love to hear from you!

Our employees are at the heart of our success, as we work together for our sustainable future.

There are four People Fundamentals that underpin life at Safran:

- We believe in and promote diversity and inclusion as key values across our business
- We develop our colleagues skills and build opportunities so you can shape our future
- We create a trustworthy workplace to support you, as you dare to act and innovate
- We encourage collaboration and mutual support for you and your colleagues

As a valued member of our team, these are just a few of the benefits you'll receive:

- 25 days holiday + UK Bank Holidays
- Benefits Programme, with several schemes such as cycle to work, technology savings, retail discounts and access to private healthcare
- Career Progressions opportunities such as company sponsorship and further training courses
- Family friendly policies including maternity, paternity, adoptive parents, shared parental leave, parental leave and flexible working
- Equality & Diversity initiatives with internal groups for workplace engagement and involvement
- STEM engagement with schools, colleges and universities and Charitable activities for all

Please apply and submit your CV today! Once your CV has been reviewed, we will contact you in the next stages.

We want Safran Seats to be a workplace where everyone feels valued, can be themselves and know they can reach their full potential. We embrace and celebrate our differences through various initiatives and support colleagues through a number of staff networks.

We're committed to building a strong, diverse workforce and making Safran Seats an inclusive place to work.