

# Knight Aerospace Soars with CADLink, Enhancing Efficiency and Precision



## HEADQUARTERS

San Antonio, Texas

## INDUSTRY

Aerospace and Medical  
Engineering Solutions

## QBUILD PRODUCT

CADLink

## WEBSITE

<https://knightaerospace.com/>

Knight Aerospace, a leader in aerospace and medical engineering solutions, encountered inefficiencies in its data transfer processes. With a workforce of 64 employees operating from a single location in San Antonio, Texas, the company sought to enhance its operational efficiency.

Specializing in the design and manufacture of aeromedical modules, palletized systems, and quick-change solutions for cargo aircraft, Knight Aerospace embraced CADLink to streamline its operations. This marked a transformative step in optimizing workflows and maintaining its commitment to delivering innovative and reliable products for military, government, and commercial clients worldwide.



“CADLink delivers long-term value while eliminating costs linked to outdated systems, human errors, and inefficiencies.”

Eduardo Solis – Lead Mechanical Design Engineer

## THE COMPLEXITY OF MANUAL DATA ENTRY

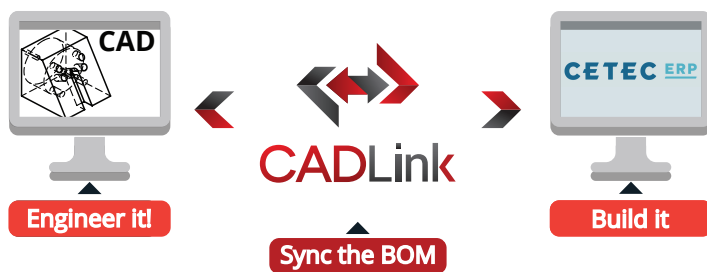
Before CADLink, Knight Aerospace relied on a labor-intensive and error-prone system. All data transfer to their Cetec ERP system was done manually, with countless hours spent typing information from multiple BOMs (Bills of Materials) using a series of complex Excel sheets.



The consequences of this manual approach rippled throughout the company:

- Shop Floor Issues: Incorrect item quantities, wrong part numbers, and overlooked items disrupted the shop floor, leading to delays and confusion.
- Planning Team Bottleneck: The planning team struggled to process, release, and convert BOMs into labor work plans on time due to manual data input.
- Risk of Errors: With manual data entry, the risk of human error was ever-present, potentially leading to costly mistakes and rework.

The key factors they wanted to address were **reducing costs and risks, increasing productivity, improving quality, and gaining a competitive advantage.**



## UNLOCKING EFFICIENCY WITH CADLINK

The team's primary concern was finding a way to seamlessly transfer data from their SolidWorks/PDM BOM into their Cetec ERP system. After exploring CADLink's capabilities, they realized it offered the perfect solution.

### CADLINK INTEGRATION: KEY TAKEAWAYS

- BOM Item Accuracy: Ensuring the accuracy of BOM items was paramount.
- Data Transfer Time: Reducing the time spent on data transfer was crucial.
- Ease of Use: The system needed to be user-friendly for the engineering team.

"The consistency, responsiveness, and sense of urgency demonstrated by both Rita and George from QBuild were truly outstanding. They were highly accessible to all team members involved and showed remarkable patience, willingly engaging in multiple back-and-forth discussions to address our questions, concerns, and suggestions. They recognized the critical importance of this software and understood our urgency in implementing it, maximizing its capabilities, and leveraging its full potential."

Eduardo Solis – Lead Mechanical Design Engineer

## IMPLEMENTATION AND SUPPORT

One standout aspect of Knight Aerospace's implementation involved tailoring CADLink to restructure the data coming from their PDM system to meet the unique requirements specified by Knight's planning team in their Cetec ERP.

## ANTICIPATED ROI AND COMPETITIVE ADVANTAGE

Knight Aerospace anticipates a significant return on investment (ROI) from CADLink. The purchase is expected to lower operating costs by increasing efficiency, reducing errors, and minimizing rework or material waste. Streamlining processes, decreasing manual effort, and enhancing accuracy and consistency were also key justifications for the purchase.

The benefits extend beyond mere cost savings:

- **Improved Customer Satisfaction:** Ensuring compliance with industry standards and reducing safety risks helps prevent costly fines, legal complications, and downtime.
- **Competitive Edge:** Investing in advanced technology differentiates Knight Aerospace from competitors, attracting more customers and expanding market share.



## INTANGIBLE BENEFITS AND A BRIGHTER FUTURE

Beyond the tangible benefits, Knight Aerospace anticipates several intangible improvements:

- **Improved Collaboration:** Enhanced communication and teamwork between IT and engineering departments will ensure smoother planning and execution for operational efficiency.
- **Process Standardization:** The adoption of more structured workflows and best practices will lead to greater consistency across departments.
- **Employee Satisfaction:** Reducing repetitive manual work and errors will allow employees to focus on higher-value tasks, leading to increased job satisfaction.
- **Faster Decision-Making:** Access to accurate, real-time data will enable quicker and more informed business decisions.

"CADLink delivers long-term value while eliminating costs linked to outdated systems, human errors, and inefficiencies. QBuild's team goes the extra mile to understand clients' needs, requests, and the intended use of the application."

Eduardo Solis – Lead Mechanical Design Engineer



Knight Aerospace is confident that CADLink will be a game-changer for their organization, delivering both immediate and long-term benefits and positioning them for future growth and success.