

MECHANICAL ENGINEERING / DESIGN / PROTOTYPING / LEADERSHIP

Engineering & people leadership

I turn design intent into working hardware through mechanical design, rapid prototyping, and testing - and build the teams that make it happen.

Sr. Manager, Design Engineering | Implant Direct
14+ years developing hardware across medical devices and aerospace.



Explore the portfolio

14+

years developing hardware

7

engineering direct reports

11

product launch contributions

100%

team engagement
Consecutive years
Anonymous direct-report surveys

INTERIM DIRECTOR OF OPERATIONS / IMPLANT DIRECT

Leading an 80+ employee facility

Owned the full Operations P&L and budget through a leadership transition. Maintained 100% on-time delivery through supplier, material, and equipment challenges.



SELECTED PRODUCT LAUNCHES

Development from concept and prototype feedback through market release. Also wrote scripts, performed on camera, and directed product marketing videos.

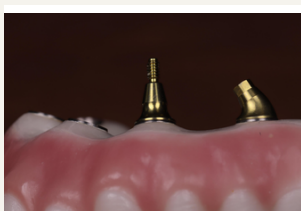
**DIRECTguide™**

Guided surgery system

Led development through market release. Used 3D-printed prototypes and user feedback to refine the tray and clinical workflow.



Product video

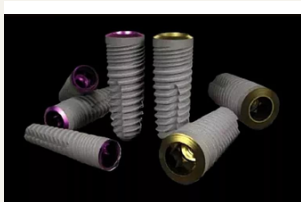
**DIRECTarch™**

Full-arch restorative workflow

Directed development through release, aligning engineering, clinical, quality, operations, and supply chain teams.



Product video

**Simply Iconic™**

Implant system

Led the engineering team through development and release of the implant system and its connected product portfolio.



Product video

Product imagery and videos: Implant Direct. QR codes and labels are clickable in this PDF.

AEROSPACE / PERSONAL PROJECTS / EDUCATION

Aerospace and personal projects

CAD, structural validation, and hands-on fabrication - across aircraft seating and projects outside work.

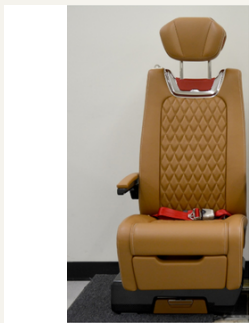
EMBRAER / AERO SEATING TECHNOLOGIES

Phenom 300 seating

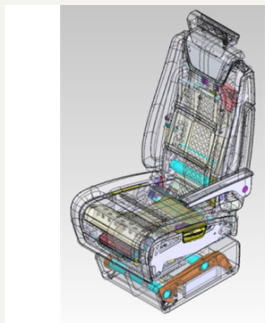
Contributed CAD models, engineering drawings, and crash-test validation to the seating-system launch.

E190-E2 seat structure

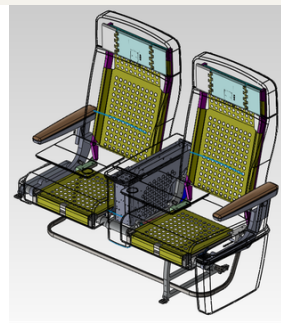
Designed and tested seat structures, developing structural geometry in CAD and validating the design through testing.



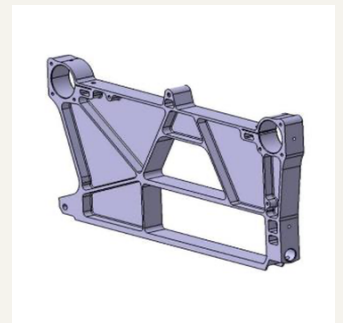
Physical prototype



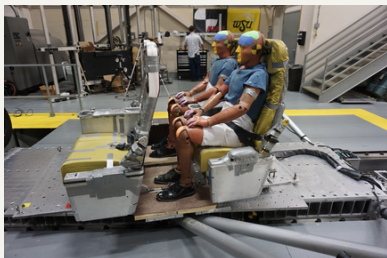
Seat assembly CAD



Paired seat CAD



Structural component



Crash-test validation

Led crash-test programs supporting FAA certification, translating requirements into design criteria, test plans, and structural acceptance evidence.

[View the engineering story](#)



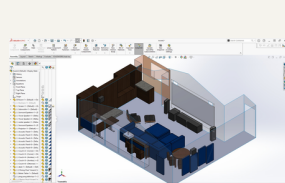
Crash-test video

5.1.2 Dolby Atmos listening room

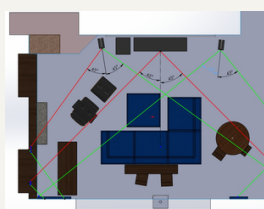
Modeled the room in SolidWorks to within 1/8 inch of real-world dimensions. Mapped acoustic reflection points, designed and fabricated the panels, and integrated the room system.



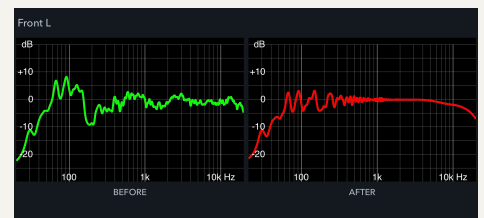
Completed room



SolidWorks model



Reflection-point analysis



Front left: before / after correction

EDUCATION

MSc, Motorsport Engineering

Oxford Brookes University

Chassis and suspension simulation and physical testing.

B.S., Mechanical Engineering

California State University, Northridge

Formula SAE: chassis design, prototypes, and fabrication.