

RICHARD CAINES

CANBERRA, ACT

0423 560 898

richardcaines2@gmail.com

DESIGNER PROFILE

Industrial Designer with a strong technical background and nearly three years of professional experience in coordinated 3D modelling, complex system integration, and multidisciplinary design delivery. Combines creative problem-solving with practical construction and engineering knowledge, enabling the development of robust, real-world design solutions. Particularly interested in technical, industrial, or defence-adjacent design roles involving systems thinking, digital modelling, and product or infrastructure development.

DESIGN & TECHNICAL SKILLS

- 3D Modelling & Digital Design
 - Technical Design Development
 - Systems & Spatial Coordination
 - Design for Manufacture & Assembly (working knowledge)
 - Concept-to-Delivery Design Thinking
 - Design Documentation & Visual Communication
 - Stakeholder & Engineering Collaboration
-

SOFTWARE & TOOLS

- Revit (advanced 3D modelling & coordination)
 - Fusion360
 - Creo Parametric
 - AutoCAD
 - Navisworks
 - Adobe Suite
 - DaVinci
 - Rhino
 - Revizto
 - Keyshot
-

PROFESSIONAL EXPERIENCE

3DS GROUP

Building Services Designer

May 2023 - Present

- Applied industrial design principles to the development of coordinated building services models within complex spatial and technical constraints.
 - Developed detailed 3D models representing integrated mechanical & electrical systems, ensuring functional and constructible outcomes.
 - Worked across disciplines to resolve design conflicts, balancing form, function, compliance, and installation practicality.
 - Produced high-quality technical documentation supporting project delivery across commercial and government sectors.
 - Participated in design coordination workshops, contributing design-led solutions to complex system integration challenges.
 - Adapted designs in response to site conditions, late-stage changes, and stakeholder feedback.
 - Supported iterative design development, refining models and documentation through multiple project phases.
-

EDUCATION

Bachelor of Design (Industrial Design)

University of Canberra

2020 - 2023

- Human-centred design methodology
 - Concept generation and prototyping
 - Systems-based design thinking
 - 3D modelling and visual communication
 - Translating conceptual ideas into technically viable solutions
-

DESIGN INTERESTS

- Technical and systems-driven industrial design
 - Infrastructure, transport, and large-scale product development
 - Design processes that bridge creativity and engineering
 - Defence and government design projects
-

CERTIFICATIONS & TRAINING

- Construction Induction Card
- Asbestos Awareness
- Crystalline Silica Exposure Prevention
- RSA

SECURITY CLEARANCE

- Available upon request

REFERENCES

- Available upon request

ADDITIONAL INFORMATION

- Australian-based, willing to relocate