

# CAPABILITY STATEMENT

CAD MANAGEMENT AND DEVELOPMENT

## EXECUTIVE SUMMARY

Riven Solutions excels in CAD management and development, enhancing the efficiency and quality of design workflows. We provide comprehensive support for Autodesk AEC packages and Inventor, optimizing processes and establishing robust CAD standards. Our team swiftly resolves issues to keep projects on track. We also specialize in software development, offering solutions such as AutoCAD automation and standalone applications to streamline the design process. By collaborating closely with clients, Riven Solutions delivers tailored solutions that ensure high-quality and consistent project outcomes

## PAST PERFORMANCES

- A standalone C#/ .NET application serves as a central hub for all designers, managing every aspect of their computer setup related to CAD. It ensures consistency by connecting everyone to the correct database sets and profiles, while also offering user-friendly features like an intuitive LISP script creation tool.
- A highly customized Navisworks automation tool that seamlessly carries over all smart data from native files. This tool allows Design Leads to control nightly outputs, including discipline grouping and AFC colouring, and is currently utilized in the Fimiston Project, integrating over 600 models.
- A one-click solution for designers to optimize large models, particularly Vendor STEP files, using Autodesk Inventor's API. Designers can select a set of files, which are then automatically processed by a script machine, significantly reducing file sizes by 30-50% without any manual intervention. The completed files are emailed directly to the designers.

## Insurances

### Professional Indemnity

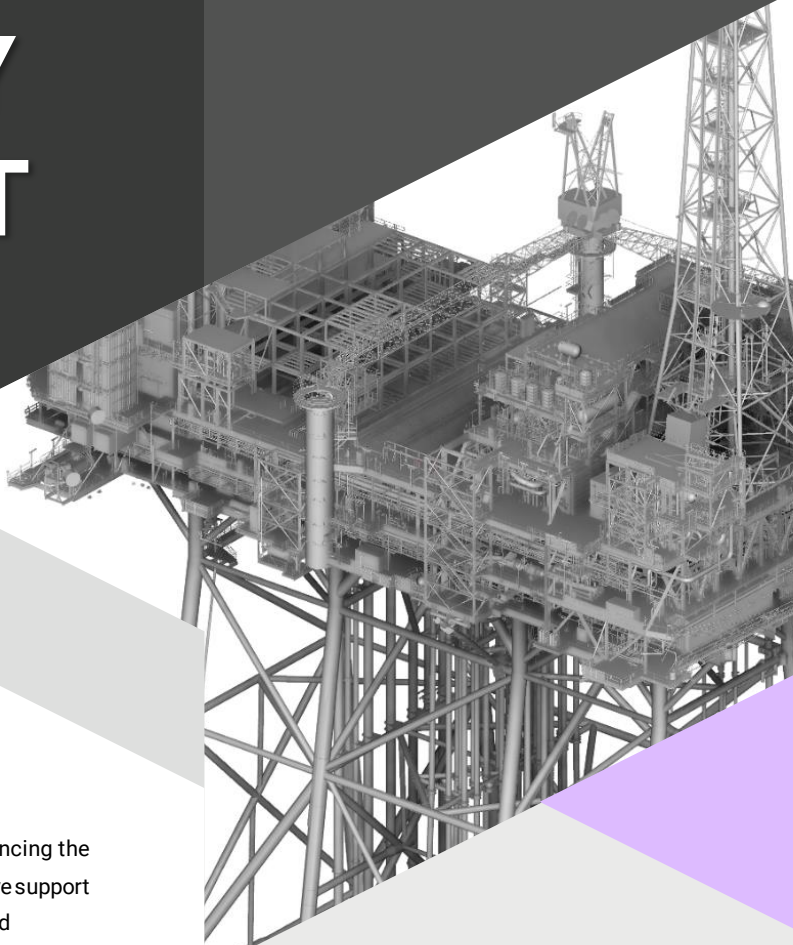
\$20 Million

### Public & Product Liability

\$20 Million

### Workers Compensation

\$50 Million



## Software We Support

- AutoCAD
- Advance Steel
- Plant 3D
- Civil 3D
- Inventor
- Navisworks Manage
- Recap Pro
- Construction Cloud
- Vault Professional
- Autodesk Docs

## Programming Languages

- C#
- C++
- LISP/AutoLISP
- Python
- .NET Framework (6 & 8)
- Inventor iLogic
- SQL

## CORE COMPETENCIES

### General Support

Our team acts as an extension of your own. We provide day to day support to Designers, whether that be a missing Object Enabler to training best practises.

### CAD Automation & Development

#### LISP Routines

Custom LISP routines for automating specific design processes.

#### API Integration

Seamless integration with Autodesk APIs to extend the capabilities of your CAD software.

#### Custom Software Solutions

Development of standalone WPF applications tailored to your workflow.

#### iLogic Automation

Utilizing Inventor iLogic for creating rule-based designs and automating complex modelling tasks.

### Specialized Support

#### Plant 3D

Creation of Piping Specifications  
Project Setup  
Smart PIDs  
ISO Setup

#### Advance Steel

Database management  
ADVS Special Items  
Section Creation  
Management Tools Administration

#### Inventor

Content Library Management  
iLogic

#### Construction Cloud

Project Setup and Management

#### Vault

Project Setup and Management  
Automation (Utilising Cool Orange)

### Additional

#### Virtual Reality

Our VR solution integrates seamlessly with Navisworks, allowing you to visualize and navigate your models

## KEY CLIENTS



## GET IN TOUCH

### CONTACT

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