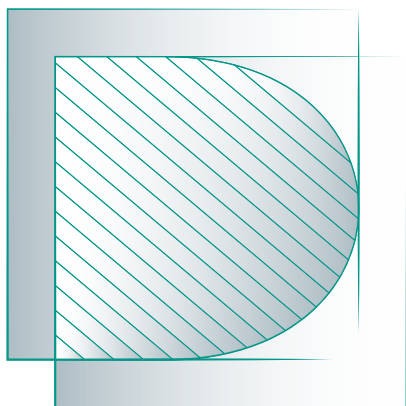




# DATI

Consulting Engineers

DJN Ontwikkelaars  
trading as:

## COMPANY PROFILE

*"Where Excellence  
Meets Innovation"*

2025

# ABOUT US



## About DATI:

Founded in 2007, DATI Consulting Engineers provides an extensive range of services encompassing Mechanical and Structural Engineering Design, Project Management, Structural Audits, Quality Assurance/Control, and Architectural solutions. Our proficiency serves various sectors, such as Mining and Mineral Processing, Pulp and Paper, Smelter, Sugar, Timber, and the Department of Public Works.

## Our Vision:



Our vision is to deliver value to our clients while prioritising the safety and preservation of both people and the environment.



## Our Mission:

Our mission is to add value to our clients through:

- Safety consciousness
- Proven technology
- Environmentally responsible
- Acting with integrity
- Fully understanding the client's needs
- Effective communication

# OUR SERVICES



**Mechanical Engineering  
Design**

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**Structural Engineering  
Design**

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**Structural  
Audits**

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**Project Management**

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**Quality Assurance &  
Control**

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**Architectural  
Services**



# Mechanical Engineering Design

DATI has substantial experience in mechanical design across various industries.

Typical fields of experience include:

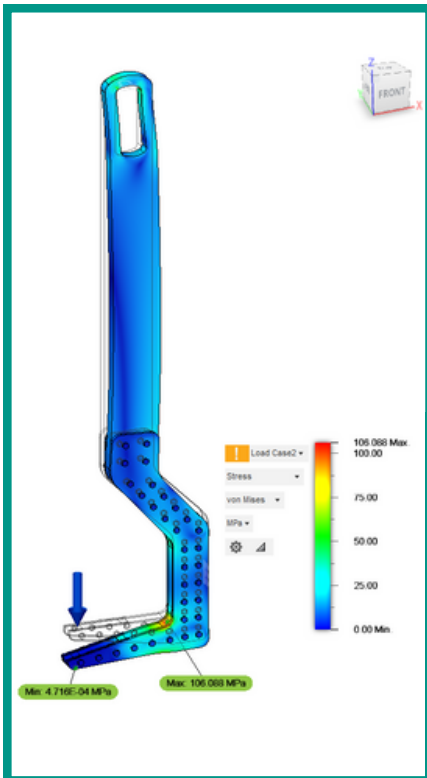
Crushing and Screening

Material Handling Equipment

- Rock and timber grabs
- Belt conveyors and transfer chutes
- Screw conveyors
- Design for unique applications

Storage Facilities

3D Scanning



Finite Element Stress Analysis

Heating Ventilation and Air Conditioning

Mechanical Services for Hospitals and Clinics



# Mechanical Engineering Design

**DATI has substantial experience in mechanical design across various industries.**

**Typical fields of experience include:**



## **Pump and Piping Systems**

- Pit de-watering
- Water reticulation and management
- Process piping
- Steam piping
- Effluent and tailings handling



## **Piping Design**

- Pipe stress analysis
- Friction loss calculations
- Water hammer and slug flow solutions



# Structural Engineering Design

DATI offers civil and steel structural design services in the mining and other industrial industries.

## Typical fields of expertise include:

- Industrial buildings and support structures
- Cranes and crawl beam structures
- Conveyor structures
- Transfer chutes, storage bins, box fronts, etc.
- Concrete structures
- Foundations
- Concrete slabs





## Structural Audits



Structural audits are being conducted in accordance with the “Structural Inspection and Maintenance Management of Mining Structures Guidelines” (SIMMS)

The reports generated after the audits categorise both the condition and action priority for the client.



# Project Management

Project management for multidisciplinary engineering projects is done in accordance with PMBOK guidelines, tailored for each specific project, and incorporating the client's specific requirements.





## Quality Assurance & Quality Control

DATI can aid clients in establishing quality assurance systems and quality control procedures for specific projects or ongoing processes.

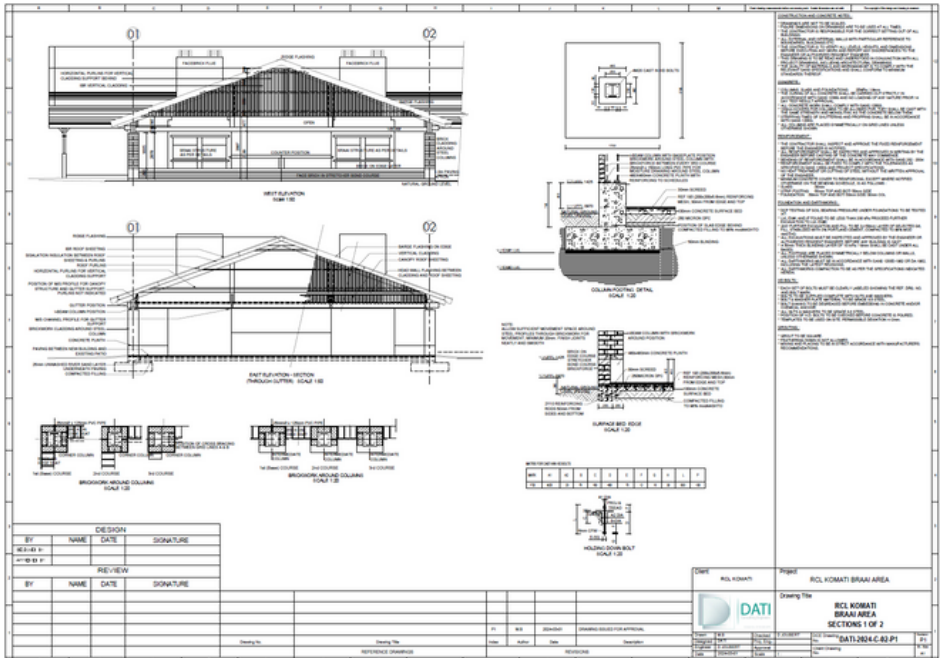
This could involve dealing with the client directly or assisting service providers to clients on the client's behalf.

The benefits of an upfront, well-developed, and properly implemented QA/QC system far outweigh the effort and cost required to implement such a system.



Our architectural services encompass the whole spectrum of the architectural field, from concept design and design development to technical documentation and project implementation. We also collaborate with other professionals on master planning for EIA studies, pre-feasibility studies, feasibility studies, and project management during the construction phase.

Services can be done on a full appointment basis or for portions of the project of construction phases.



# DESIGN TOOLS

## Design Tools Typically Being Used:

**CAESAR II:** pipe stress analysis

**FluidFlow:** incompressible flow, compressible flow, two-phased liquid-gas, and slurry

**ANSYS:** finite element analysis

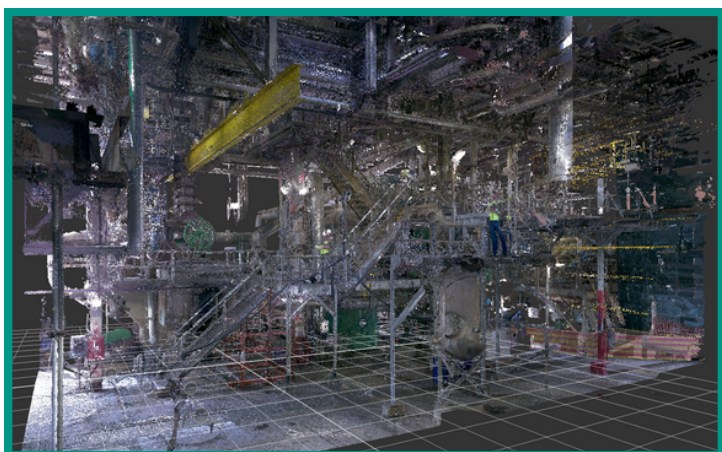
**Prokon:** structural steel and concrete analysis

**COADE Tank:** tank design

**MECA Stack:** stack design

**Autodesk:** various packages

**3D Scanning:** laser scanning for 3D digital modelling



# CLIENTS

## Our clients include:

Barberton Mines

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Nkomati Mine

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Kenmare Moma Sands

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Bushveld Vametco

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Sappi Ngodwana

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York Timbers

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Manganese Metal Company

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Sonae Arauco

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RCL Foods

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Mozal

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Newmont

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# PRODUCTS

## Products We Supply:

**SafeGrab series for removal or manipulating of oversized material at crushers:**

**Open area rock grab for use with gyratory crushers:**

SafeGrab OA - 2500

**Confined space rock grab for use with jaw crushers:**

SafeGrab CS - 700

SafeGrab CS - 1100

SafeGrab CS - 1500

Any special application material handling equipment can be designed and fabricated.



# CONTACT US

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