

OUR COMPANY PROFILE

Founded in 1993, TF Design group of companies established itself as a market leader in turn-key project implementation across a range of industry sectors. Our experience and knowledge in heat transfer, fluid dynamics, combustion, process control, automation, power generation and thermodynamics, coupled with our client-focused approach, enable us to provide innovative, reliable solutions.

OUR CORE COMPETENCIES

- Mechanical Engineering
- Electrical Engineering & Control Systems
- SCADA Systems
- Turnkey Projects
- Product Development & experimental R&D
- Project Management, Execution & Commissioning

OUR KEY SERVICES

- Power & Thermal Energy Generation & Optimization
- Mobile Systems
- Heat Exchangers & Pressure Vessels
- Control & Automation
- Quality Control & Acceptance Testing
- Material Handling & Storage
- Process & Abatement Equipment
- Controlled Environments & Industrial Dryers
- Process Pipelines & Services
- Combustion Optimization & Control

SERVICED INDUSTRIES

- Automotive & Aviation
- Military & Defence
- Medical & Chemical
- Power Generation & Renewable Energy
- Biomass & Timber
- Food & Beverage
- Mining
- Technology Development

WHO WE LOOKING FOR:

- A highly skilled software engineer / application developer with a strong background in full stack development and system integration.
- A diploma / degree in Computer Science, Software Engineering, Elec Eng, Mechatronics, or related field (BSc, BEng, BTech, BEngTech) OR equivalent high-level industry experience with a proven project portfolio.
- Strong experience in modern web and mobile development stacks.
- Strong understanding of front-end and back-end development frameworks.
- Experience working with databases (SQL and/or NoSQL) and cloud platforms.
- Proven ability to design scalable, maintainable system architectures.
- Proven experience in designing and developing web-based and mobile applications (iOS and Android).
- Ability to integrate and visualize real-time data from PLCs and industrial controllers into user-friendly applications.
- Familiarity with industrial communication protocols (e.g., MQTT, OPC UA, Modbus TCP/IP) will be advantageous.
- Able to work in a fast paced, flexible work environment with a team of engineers & artisans.
- Must be a team player and eager to learn a variety of new skills and industries.
- Able to travel locally and abroad to complete and commission projects.
- Well-spoken & approachable with good client interaction skills.
- Must have a valid South African I.D, Passport & Drivers licence.
- Must be able to work from our workshops in Stellenbosch daily.

PRIMARY RESPONSIBILITIES:

- Design, develop, and maintain web and mobile applications for internal and client-facing projects.
- Develop applications compatible with web browsers, iOS, and Android platforms for TFD systems.
- Integrate real-time data from PLCs and industrial control systems into applications.
- Design and implement data pipelines and communication interfaces between control systems and applications.
- Collaborate with PLC programmers and engineers to ensure seamless system integration.
- Test, debug, and optimize applications for performance, scalability, and reliability.
- Contribute to system architecture decisions and advise on best practices for digital integration.
- Assist in the development of user-friendly dashboards and interfaces for monitoring and control.
- Remuneration will be industry based and dependent on experience & skill level

PLEASE SUBMIT YOUR CV & FULL ACADEMIC RECORD TO DANE@TFDESIGN.CO.ZA