

ROGER TABELIAO

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Additional Personal Information

PROFESSIONAL PROFILE

A versatile, career-driven and hard-working mechanical engineer with three years of experience in mechanical design and manufacturing. Possesses first-rate design skills using the latest CAD software and constantly strives to expand his technical knowledge with the aim of improving quality and efficiency. Has the proven ability to manage and complete projects timeously and to the highest personal and professional standards.

EDUCATION

Bachelor of Mechanical Engineering (BEng, Mech)

University of Pretoria, Pretoria, Gauteng

January 2006 - November 2011 (Completed)

Master of Engineering (MEng, Project Management) (MPM)

University of Pretoria, Pretoria, Gauteng

January 2016 – Present (Completion November 2017)

Senior Certificate with Merit

Capricorn High School, Polokwane, Limpopo

December 2005

TRAINING

Mechanical Workshop Training

Tshwane University of Technology, Pretoria, Gauteng

June 2010

Training included:

Gas welding, Soldering, Arc welding, Turning, Milling, Panel wiring, Electric motor wiring, Basic electronics and electrics

KEY SKILLS

- **Software:** AutoCAD, Inventor, Solid Works, Microsoft Office Suite, SimXpert, Ansys, SAP Business
- **Programming:** C#, Delphi, Octave, Matlab
- **Languages:** English (Fluent), Afrikaans (Conversant), Portuguese (Conversant)

CERTIFICATES

- Registered Candidate Engineer with Engineering Council of South Africa (ECSA)
May 2012
- AutoCAD Customized training
Modena Design Centre, Durban
November 2013

WORK EXPERIENCE

Mechanical Designer (Automation)

April 2015- Present

Directech | Kya Sands, Johannesburg, GP | www.directech.co.za

Turnkey automation projects in the automotive, mining, chemical, food and beverage and process industries.

Responsibilities:

- Conceptualized and designed mechanical prototypes, machinery and components for industrial applications.
- Analysed mechanical functionality of systems, including Finite Element Analysis for structural, fatigue, thermal and vibration.
- Analysis and specification of electro-mechanical, electro-hydraulic and pneumatic control systems.
- Developed manufacturing drawings in accordance with applicable company standards using Solid Works.
- Liaised with customers, vendors, production managers, procurement for component selection, manufacturing and assembly.
- Read and interpret blueprints, technical drawings, schematics.
- Conferred with Automation engineers and other personnel to implement operating procedures, resolve system malfunctions and provide technical information.
- Sheet metal design for manufacturing using CNC punching, CNC laser, and press brake machines
- Maintain and kept as-built drawings up to date.
- Specify system components or direct modifications of products to ensure conformance with engineering design and performance specifications.

Mechanical Engineer

April 2012- February 2015

WESANT | Pinetown, KZN | www.wesant.co.za

A leading manufacturer of passenger elevators, platform lifts, hoists and dumbwaiters.

Responsibilities:

- Prepared manufacturing drawings, documentation and instructions required for manufacturing in accordance with the latest South African standards and regulations (Namely SANS:1545).
- Utilised 2D and 3D model packages (Inventor & AutoCAD) to design products and issue manufacturing drawings.
- Sheet metal design for manufacturing using CNC punching and press brake machines.
- Created installation manuals to aid in the lift installation process.
- Implemented and refined design and manufacturing processes by applying continuous improvement and lean manufacturing principles to all areas of production.
- Developed, evaluated and improved manufacturing processes to improve efficiency and reduce scrap.
- Planned the use of resources and scheduling activities in order to meet objectives.
- Liaised with clients to discuss their specific requirements.
- Generated quotes for clients.

- Identified and implemented ways to reduce production costs.
- Research and product development.
- Provided engineering support to lift installation teams.
- Trained new employees.

Major achievements:

- Improved design process resulting in a saving of 20% in design time per project.
- Upheld quality standards that helped the company earn ISO 9001 certification in 2014.
- Designed and implemented new hoist slack-rope device resulting in a saving of 80% of the production cost and 10% installation time of the device.

Student Internship (Vacation Work)

June 2011- July 2011

Misha Projects and Engineering | Johannesburg, GP

- Assisted with manufacturing of precast concrete moulds
- Assisted with assembly of turbine helicopter assembly
- Programming of cockpit navigation system

Student Internship (Vacation Work)

November 2010- January 2011

Northkab Engineering | Polokwane, Limpopo

- Conveyor system maintenance
- Workshop machining (turning, milling, cutting)

HOBBIES AND INTERESTS

Drumming | Gym | Music | Squash | Rugby

REFERENCES

References are available on request.

For a more detailed CV, visit
www.visualcv.com/robertabeliao