

# Paul Penning

## Master Engineer

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Dutch and South African National.

## Summary

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An experienced project manager and master of engineering with a diverse skill set.

## Areas of Expertise

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- Project Management.
- Maintenance Management.
- Administration System Development.
- Product Research, Design and Development.
- Software.
- Data Acquisition.
- Automotive Aerodynamics.
- Automotive Restraints & Body Structures.

## Key Skills

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- Holistic system management, optimisation and design by effectively integrating and aligning sub-components to increase return without complex upgrades or replacements requiring additional resources.
- Incorporating production constraints at project development definition phase.
- Creation, execution and control of regular resource, management and technical reviews to ensure compliance with internal and external objectives.
- Leadership through strategic proactive excellence.
- Paradigm Shift approach to problem solving.

## Employment History

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- Present – 2020 : Project Engineer.  
P3Projects, Erfurt, Germany.
- Private Law firm. Erfurt, Germany.
    - Re-evaluation and optimisation of internal administrative practices.
  - OEM Software.
    - dBuilder release, marketing and on-line sales.
- 2020 – 2015 : Recovery from Paragliding Accident. Relocation to Europe.
- 2015 – 2003 : Owner, Managing Director, Project Manager, Principal Software Developer.  
P3Projects, Cape Town, South Africa.
- Management.
    - P3Projects as company.
    - Hydraulic mine conveyance-equipment company. Johannesburg, South Africa.
      - Staff and working practice definition, re-organisation and optimisation.
      - Development and implementation of technical standards.
      - Product development. Barrie, Ontario, Canada.
  - OEM Software Management and Development.
    - Tour operator operating system.
      - Itinerary planning, construction and procurement. Quoting, invoicing, purchasing, detailed documentation, supplier booking requests, financial accounting integration, profitability analysis and management control.
    - Task management system.
      - Task and timing management, creation, deployment, control and feedback.
  - Software Development.
    - Automotive stock branch allocation for a nationwide distribution system.
    - Creditor, debtor, stock and raw material control system for a clothing manufacturer.
    - Stock allocation and control system for a civil roofing contractor.
    - Data upload automation for accounting systems.
  - Website Development.
    - Management, layout, structuring and construction.
    - Technical application development.
    - On-line visibility.

- 2003 - 1997 : Principal Engineer, Product Engineer, Design Engineer, Aerodynamicist.  
DAEWOO Automotive, Worthing Technical Centre, England, United Kingdom.
- Principal Engineer.
    - Development and control of drawing office working practices.
    - Flat file architectural design and implementation including user training for design-in-content and digital mock-up capabilities.
    - Development and implementation of a Bill-of-Materials management system.
    - Managing the development of restraint and steering wheel systems.
    - Cost tracking of body panels. Crewe, North England.
  - Product Engineer.
    - Management of a team to modernise and align engineering drawings with manufacturing processes and procedures. Leamington Spa, Midlands, England.
  - Design Engineer.
    - Door trim design. Wolfsburg, Germany.
    - Detail structural design.
  - Aerodynamicist.
    - Rolling and static road wind tunnel test management and execution.
- 1997 - 1995 : Junior Aerodynamicist, Software Developer.  
Fouché Aero Design, Pretoria, South Africa.
- Wind Tunnel Testing.
    - Race cars.
      - CSIR, Pretoria, South Africa.
      - Jordan Grand Prix, Silverstone, England.
    - Commercial Coach.
  - Computational Fluid Dynamic Simulations.
  - Software Development.
- 1995 : Project Engineer.  
KLM Royal Dutch Airlines, Amsterdam, The Netherlands.
- To determine the influence of indirect maintenance costs on the replacement strategy for the 2000 ground-based vehicle fleet.
- 1995 - 1991 : Maintenance Manager, Maintenance Engineer, Engineer in Training.  
Iron and Steel Industrial Corporation Ltd., South Africa.
- Mill Safety Officer under the South African Health and Safety Act and ISO9002.
  - Management of 8 foremen, 10 planners and a workforce of 200 to achieve maintenance objectives of the 2000 ton per hour hot-rolled steel mill operating continuously on a 3 shift basis.
    - Breakdown, frequency, reactive and pro-active maintenance.
    - Weekly 2 shift maintenance shutdown.
    - Annual 6-week plant-wide maintenance shutdown.

## Education and Training

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- Masters Degree : M. Eng. University of Pretoria, South Africa.  
1999  
Experimental and Computational Investigation into Race Car Aerodynamics.
- Honours Degree : B. Hons. Eng. University of Pretoria, South Africa.  
1993  
Computer Aided Analysis of Mechanical Systems, Design, Laser Materials Processing, Numerical Methods, Aircraft Aerodynamics, Aircraft Design, Vehicle Aerodynamics, Vehicle Propulsion.
- Bachelors Degree : B. Eng. Mechanical. University of Pretoria, South Africa.  
1990  
Standard curriculum.  
Final year design project: Exterior design of a 25-seater, 12<sup>th</sup> scale touring bus.
- Other Courses : Software: CATIA, 4D Navigator, CDP.  
2003 to 1991 : Various management courses including Maintenance Systems, Business Simulation, Juran Quality Improvement.

## Publications and Presentations

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- 1999 : Experimental and Numerical Investigation into Race Car Aerodynamics. Thesis.
- 1996 : Using Computational Fluid Dynamics to Investigate the Air Flow Beneath a Formula One Racing Car. Presented at the annual South African Conference on Applied Mechanics.