

# John CITIZEN MIEAust NER

Mechanical Engineer

Melbourne, Australia

Mobile number

Email address

Linkedin profile

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## PROFESSIONAL SUMMARY

→ *INSTRUCTION: Brief summary of career and key areas of expertise.*

Innovative mechanical engineer with more than 20 years' experience leading the design and development of mechanical components for automotive market leaders. NER registered engineer with demonstrated expertise in optimising component and system design for robustness, durability, cost and on time delivery. Self-motivated, highly organized, detail-oriented and safety-driven with solid record of achieving program, vehicle, and customer level targets.

## KEY SKILLS

→ *INSTRUCTION: Summary of your skills, both technical and professional.*

- Complex project management skills
  - Extensive technical and manufacturing experience in the automotive industry.
  - Program planning, coordination and leadership experience.
  - Excellent interpersonal and communication skills.
  - Cross-functional team leadership and issue resolution experience.
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## PROFESSIONAL EXPERIENCE

→ *INSTRUCTION: Detail relevant work experience in reverse chronological order, most recent employment first. The assessor will be looking for examples of how you demonstrate the competency criteria for the type of assessment and Area of Practice you are applying for. They will consider how you identify, assess and manage risks, how you know and can apply engineering fundamentals and principles, how you analyse problems and develop safe and sustainable solutions, how you can work with others and make sound decisions. If applicable, it should also demonstrate evidence of experiential learning in career progression.*

**Apr 2020 – Present**

**Big Car Company, Clayton, Victoria**  
Senior Mechanical Engineer

### Key Responsibilities

- Designed and developed mechanical components and assemblies for localisation of Big Car Company imported engines.
- Responsible for the engineering assessment of new designs against fixed criteria to meet Australian Standards for safety, emissions and product lifecycles.
- Developed and performed finite element analysis (FEA) to integrate the new components with existing, and to minimise changes to existing systems without impacting function.
- Reported monthly progress and results to senior management, including timing and cost impacts.

### Key Achievements

- Designed, integrated and delivered 25-part changes to the engine of the new Hybrid, within tight project timing and costs constraints.
- Introduced new FEA modules, and trained additional team members, to improve turn-around time and design efficiencies by reducing iteration complexity.

**Aug 2016 – Feb 2020**

**Innovative Designs, Ardeer**  
CAD Designer

**Key Responsibilities**

- Developed the CAD model of cross car beam to meet NCAP 5-star rating for client.
- Integrated the v3 and v6 CAD models of the meshing gears of a bank vault locking mechanism.
- Managed a team of 2 other CAD designers to deliver projects on time and within budget.

**Jan 2011 – Jul 2016**

**Leading Motor Company, Geelong**  
Lead Mechanical Engineer

**Key Responsibilities**

- Responsible for engine-dress production line at the engine assembly plant in Geelong.
- Designed and introduced bespoke assembly tool aids and jigs to improve line speed and KPIs.
- Reporting daily to plant management at start up meeting on throughput, KPIs, issues, their Interim Containment (ICA) and Permanent Containment Actions (PCA).
- Managed team of 4 mechanics and 8 engine dress staff.

**Key Achievements**

- Managed and corrected 2 stop build issues – from identification of the issue, developing an ICA to get the line started, working with the design engineer and supplier on the PCA, and quality improvements to prevent recurrence

**Jan 2008 – Dec 2011**

**Leading Motor Company, Geelong**  
Graduate Engineer

**Key Responsibilities**

- Participated in the Graduate Program, rotating through Program Management, Powertrain Calibration, Noise, Vibration and Handling (NVH), and Plant Engineering teams.
- Coordinated and led the Issues Resolution meetings under direction of the Vehicle Engineering Manager.
- Assisted the lead engineer deliver vehicle level test plans for specific test gateways in the Powertrain Calibration and NVH roles.
- Coordinated the testing and rollout of the new sump seal on the second engine dress line.

**Key Achievements**

- Designed new database to improve issue management recording and reporting.

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**EDUCATION**

→ *INSTRUCTION: List your academic qualifications.*

**Bachelor of Mechanical Engineering (Hons)**

Melbourne University, Melbourne  
Graduated Dec 2007

**Master of Business**

Monash University, Clayton Campus/Online  
Graduated July 2021

## TRAINING & OTHER SKILLS

→ *INSTRUCTION: List your evidence of professional development.*

- CATIA v6 Training 2016
  - Six Sigma Green Belt Training, 2010
  - Proficient in Catia V6 and HyperWorks V8 solid mesh FEA
  - Proficient written and spoken English and German
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## PROFESSIONAL MEMBERSHIPS

→ *INSTRUCTION: Professional memberships, registrations, licences, etc. (if any).*

**Engineers Australia** – Member and NER registrant

**BLA State registration** (Mechanical Engineer)

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## AWARDS

→ *INSTRUCTION: Relevant awards and honours.*

**Young Professional Engineer of the Year**, Victoria, 2011

**Melbourne University Best Final Year Project Award**, 2007

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## REFEREES

→ *INSTRUCTION: Provide two referees that may be contacted by Engineers Australia during your application.*

### **Mr John Smith**

Innovative Designs Program Manager

Email: provide a work email address

Mobile: provide work phone number

### **Ms Mary Brown CPEng**

Big Car Company Hybrid Engine Line Manager

Email: provide a work email address

Mobile: provide work phone number

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