Timothy Polo

3A Nyora Cl, Coffs Harbour ● 0449 646 713 ● timothyjpolo@gmail.com

Introduction & Career Summary

Dear Sir / Madame,

I am an award winning civil & structural engineer with experience in the design and construction of significant public works infrastructure.

I have been practicing as a Civil Engineer since finishing university at the end of 2013. I also have experience in the residential construction and outdoor tourism industries.

My largest project to date has been acting as the lead project management engineer for the construction of Lanes Bridge Bowraville, a 60m long, two lane bridge with a total cost of $2,750,000.

Technical Skills

Software Technologies: VS Code, GitBash, GitHub, GitLab, Node, Electron
Software Languages: HTML, CSS, Javascript, Python

Structural Design Experience: Reinforced and Prestressed Concrete Design, Steel Design, Cold Formed Steel Design, Timber Design, Masonry Design.
Structural Project Experience: Bridges, Dwellings, Sheds, Decks, Retaining Walls, Miscellaneous Structures.
Structural Software: Revit, AutoCad, FEA with Robot Structural Analysis and SkyCiv, AutoDesk Structural Bridge Design, ClearCalcs, Structural Toolkit, Excel.
Civil Design: Geometric Road Design, Subdivision Design, Stormwater Pit and Pipe Networks, Sewer & Water Service Networks, Flooding & Hydraulic Studies to ARR 2019 using 1d and 2d Flood Modelling.
Civil Project Experience: Bridges, Dwellings, Commercial Developments, Subdivisions, Roads, Driveways, Culverts, Flood Modelling
Civil Software: AutoCad Civil 3d, HEC-RAS, RORB, Excel

Project Management: Bridges, Subdivisions & Residences

Employment History

Director - Design - Nambucca Engineering : 22 February 2021 - Present

- Duties: Project Management, Civil & Structural Engineering Design, Drafting, Reporting. Tender and Contract Preparation & Management. Liaise with clients, stakeholders, Council and external contractors & professionals.
- Projects: Bridges, Dwellings, Industrial Sheds, Subdivisions, Retaining Walls, Culverts, Miscellaneous Structures

Engineering Designer - Nambucca Valley Council : 22 May 2017 – Present

- Duties: Civil & Structural Engineering Design, Drafting, Project Management, Reporting for Council projects. Tender and Contract Preparation & Management. Liaise with community, stakeholders, Council Staff and external contractors & professionals.
- Projects: Bridges, Structures, Boardwalks, Roads, Footpaths & Cycleways, Recreational Facilities
- Tasks: Prestressed & Reinforced Concrete Design, Steel Design, Timber Design, Shallow & Deep Footing Design, Retaining Wall Design, Slope Stability Analysis, Road Design, Stormwater Design, Small Flood Studies

Civil Engineer & Draftsman - de Groot & Benson Pty Ltd : 26 November 2013 – April 2017

- Duties: Civil & Structural Engineering Design, Drafting, Reporting and Project Management for private and government development projects. Liaise with clients, Council and contractors, and negotiate engineering solutions
- Projects: Bridges, Farm Dams, Roads, Residential Subdivisions, Multi-Story Carparks, Stormwater, Sewer, Water, Sewage Pump Stations & Rising Mains, Quarries, Houses, Retaining Walls

Rifleman - Australian Army Reserve : March 2010 - August 2012

- Duties: Operate as team member of Section/Platoon/Company (C Company, 2/17 RNSWR)
- Projects: Reserve Recruit Training CSE 204543, Combined Arms Module IET(PT), RAINF IET ECN 343-2(PT) MOD2, Combined Arms Training Activities

Activities Officer - Lutanda Children's Services : September 2011 - May 2012

- Duties: Lead group recreational activities, facilitate school camps and conferences
- Tasks: Lead activities for Giant Swing, High Ropes, Quad Bikes, Flying Fox, Canoes, Archery, BMX, Meal Preparation, Scullery Duties, General Cleaning, Customer Service, Basic Landscape Maintenance

Painter's Assistant - J Polo Painting : 2005 – 2011

- Duties: Assist painters and conduct basic business administration.
- Projects: Painting and decorating of new and existing residences, prepare quotes and invoices for projects

Education

Bachelor of Civil Engineering – University of Newcastle (Graduated 2014) – CHESSN: 3698125604

- Courses undertaken include: Steel Design, Reinforced Concrete Design, Timber/Masonry and Residential Footings Design, Engineering Project Management, Structural Engineering Project, Geotechnical Engineering

Higher School Certificate – Tuggerah Lakes Secondary College, The Entrance Campus (Graduated 2008)

- Subjects include: Mathematics (Advanced & Ext 1), English (Advanced), Modern History, Extension History, Physics, Economics

General Capability Sets

- Resilience & Self Discipline - Required to perform duties as an engineer & reservist and engineer
- Responsibility & Initiative - Required to act as an engineer and camp host
- Communication & Collaboration – Required as engineer and reservist
- Negotiation & Customer Service – Required to act as Council representative in construction
- Problem Solving and Critical Thinking - Required to perform duties as an engineer & reservist
- Basic Finance and Business – Required for procurement and budget management as project engineer
- People Management – Required to achieve construction of projects as project engineer

Certificates / Competencies

- "Highly Commended" – David Abbott Award 2019 - https://www.lgfocus.com.au/editions/2019-12/thumbnails/IPWEA_awards.pdf
- NSW Driver's Licence
- "White Card" - General Construction Induction Card
- RIISS00045 – Work Zone Traffic Control Guidance Plan
- Software Experience: Revit, AutoCad Civil 3d, Civil Site Design, Robot Structural Analysis, Autodesk Structural Bridge Design, QGIS, DRAINS, SIDRA, MUSIC (by eWater), HEC-RAS, Microsoft Office,

Professional References

Keith Williams – Manager Technical Services, Nambucca Valley Council
   Ph: 0409 829 723

David Boyd, Director / Co-founder, Hauslein & Finty
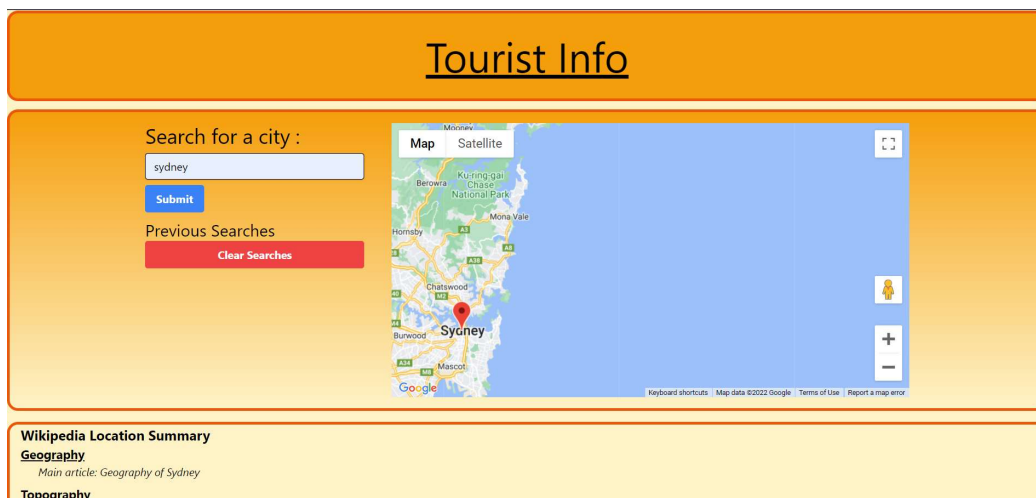   Ph: 0423 019 348

Personal Activities

- Interests: Paragliding, Surfing, Soccer, Viola & Guitar
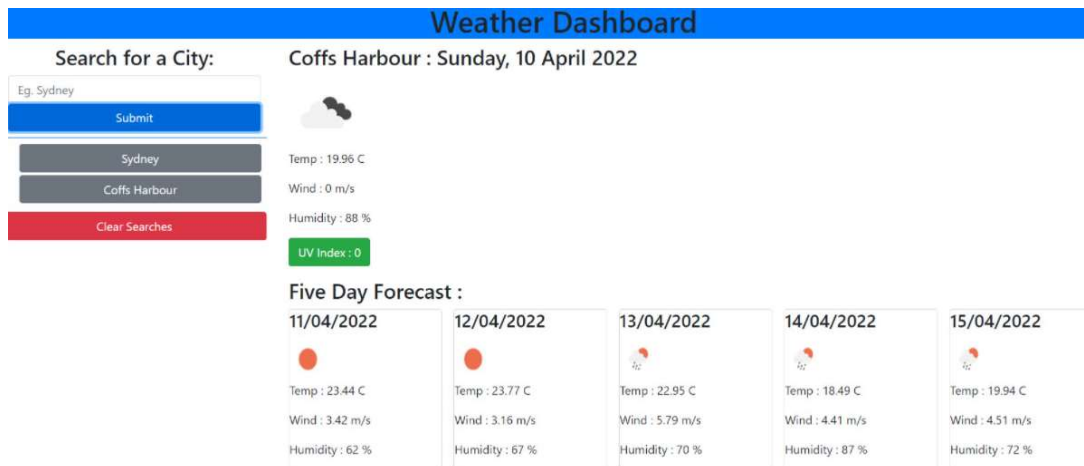
Project Examples

Tourist Info Website: April 2022

- Role: Google API Developer
- Project Summary: A tourist information website displaying Google Maps and Wikipedia information for a given city
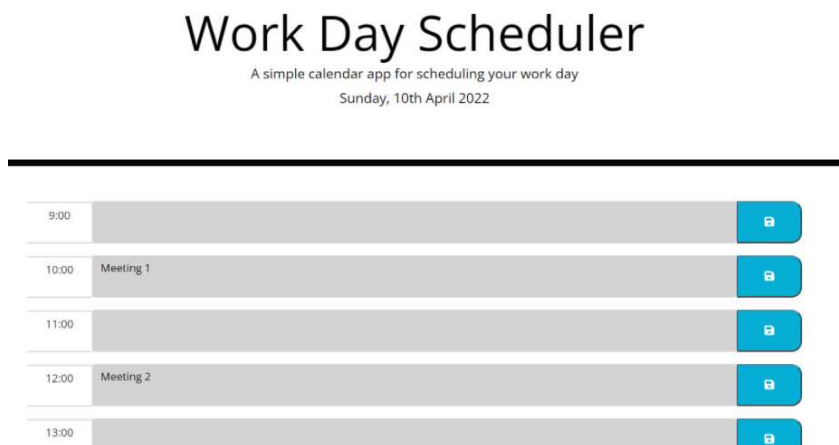- URL: https://timp1990.github.io/Tourist-Info/

Weather Dashboard Website: March 2022

- Role: Developer
- Project Summary: A website giving weather information for a given city
- URL: https://timp1990.github.io/Weather-Dashboard/

Workday Scheduler Website: March 2022

- Role: Developer
- Project Summary: A workday scheduling website, which allows users to enter and store meetings.
- URL: https://timp1990.github.io/Work-Day-Scheduler/

Lanes Bridge Bowraville: 2017-2019

- Role: Lead Project Management Engineer & Civil Design Engineer
- Project Summary: Build new concrete bridge, 60m long, 10.5m wide, 10m high
- Employer: Nambucca Valley Council
- Cost: $2,750,000
- Media: https://www.nambuccaguardian.com.au/story/5453576/lanes-bridge-discussion/
  https://www.nambuccaguardian.com.au/story/6338413/bowra-bridge-opening-a-walk-down-memory-lane/

Fischers Bridge Tamban: 2020

- Role: Lead Project Management Engineer & Civil Design Engineer
- Project Summary: Build new concrete bridge, 35m long, 5m wide, 10m high
- Employer: Nambucca Valley Council
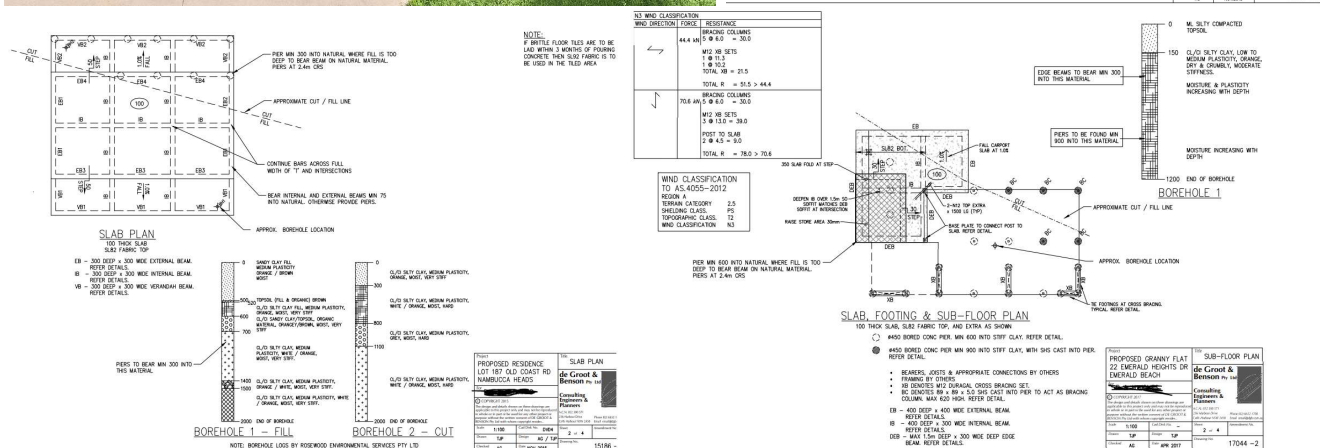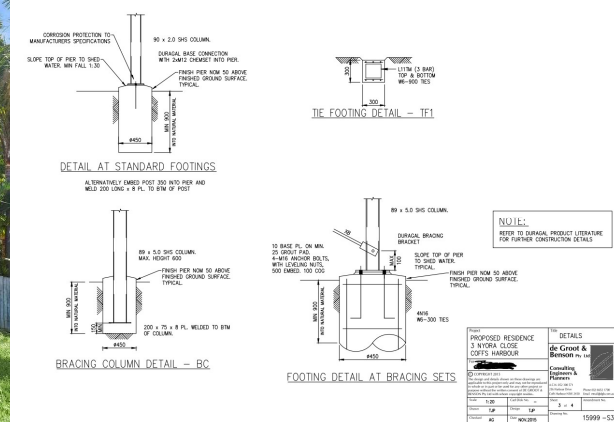- Cost: $950,000

Allgomera No 2 Bridge: 2020 - Current

- Role: Civil Design Engineer
- Project Summary: Build new concrete bridge, 35m long, 5m wide, 10m high
- Employer: Nambucca Valley Council
- Cost: $116,000

Example Residences – 3 Nyora Close Coffs Harbour, 187 Old Coast Rd Nambucca Heads, 22 Emerald Heights Dr Emerald Beach

- Role: Structural Design Engineer
- Project Summary: New Residences
- Employer: de Groot & Benson Pty Ltd
- Cost: Varied.

Mann St Nambucca Heads: 2017-2019

- Role: Civil Design Engineer & Project Management Engineer
- Employer: Nambucca Valley Council

- Project Summary: Upgrade road section, 325m long, sub-arterial, to intersection of Bent St and Palmer St
- Cost: $467,000