

## CURRICULUM VITAE

**NAME:** Ovidiu (Ovi) Boaru

**PROFESSION:** Civil Engineer

**NAME OF CURRENT EMPLOYER:** Practical Engineering Solutions Pty LTD

**NATIONALITY:** Australian

**CONTACT DETAILS:** PRACTICAL ENGINEERING SOLUTIONS Pty Ltd  
COOMA NSW 2630 AUSTRALIA  
M 0402 15 22 16  
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### KEY QUALIFICATIONS

Bachelor of Engineering (Hons) MIEAust CPEng – Civil & Structural College, he has significant experience in **Local Government Engineering, Civil, Structural & Project Management work for working on feasibility studies, design and delivery** of municipal (water and wastewater contracts), commercial (supermarket and residential projects site engineer) and domestic infrastructure (design and assistance during construction).

Focused on research and development, customer service, quality assurance, asset management and risk management Ovi has successfully established and **managed** GO engineering for seven years and Practical Engineering for over 3 years with work including financial planning, sub consultants management project management & contract administration.

Ovi has experience in working with **State and Local Government** authorities such as Cooma Monaro Shire Council, Bombala Council as Projects Engineer, with National Parks and Wildlife Service and Local Shire Councils in the field of Contract Administration, Road Design, Staff Supervision, Structural Engineering, Storm Water, Water & Wastewater Development applications, S68 & S138 approvals, essential support regarding short and long term budgeting, and hands on Project Management.

Expertise in **Municipal Engineering, Civil & Structural and Environmental Sustainable Designs, Building Code of Australia Design Compliance, Technical Specifications, Tender Documents and Contract Writing** having undertaken design works and contract administration on renovations, new developments and government projects within a multicultural and expansive alpine to coastal environment.

Between 2012 & 2014 - Ovi's consulting experience has mixed with **local government operational and administrative work such as project management for capital projects including roads design, new bridges, water and wastewater mains, staff management, acting manager when required, report writing to Council, implementation of Section 68**

across engineering department, assessment of development applications – related to water and wastewater infrastructure, assessment of Section 138 & Development Applications.

He has excellent **negotiation and conflict resolution skills, including, part of the HR team, dealing with major changes in the works, water and wastewater teams**, using a variety of techniques to resolve conflict, to maintain positive interaction and provide a win/win situation.

He has an excellent capacity to work within a **designated budget** with a proven record of budget positive projects.

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## EXPERIENCE RECORD

### CURRENT - CIVIL & STRUCTURAL ENGINEER - PRINCIPAL FOR PRACTICAL ENGINEERING SOLUTIONS PTY LTD.

- Design and Project Management for Snowy Monaro Regional Shire Council including Water Mains & Wastewater Mains Upgrade, Procurement of \$400k wastewater combo truck, Sludge Management, Parsonage Creek Bridge, New Roads upgrades, etc
- projects include - engineering supervision for a disabled footpath construction for Sports and Rec Jindabyne. The contract was extended to actually designing and specifying a further 140 meters of disabled footpath for the following stage.
- road and bridge design for a 300 meters road reconstruction along Tantangara Road for NPWS
- miscellaneous structural and civil design for residential and commercial projects - including structures and stormwater management systems and geotechnical investigations.
- contract administration of building or renovating one residential development per year as owner builder or as project manager in conjunction with a local builder. Latest examples are at 13 Wangie Street5, 15 Wangie Street and current 150k renovations of 49 Denison Street Cooma NSW

### COOMA MONARO SHIRE COUNCIL – Water & Wastewater Technical Officer & ENGINEER (October 2012 – June 2014)

PROJECTS Work on miscellaneous projects such as:

- Structural & water proofing repairs to broken pretensioned tendons at Snowy 1 reservoir
- Access road upgrade including subsoil drainage, design and pavement reconstruction for works at the Glen WWTF.
- Assistance with creating job package and technical assistance for miscellaneous water main upgrade, e.g at Allambi Place,

**WATER & WASTEWATER ENGINEER'S, duties included:**

- \* Management of Cooma, Bredbo & Nimmitabel Water reticulation systems.
- \* Management of the Nimmitabel Wastewater Scheme and Cooma Wastewater Drainage System
- \* Assisting budget projection and with delivery of the capital works program.
- \* Maintenance of Water and Wastewater assets.
- \* Deal with operational staff & human resources issues to ensure efficient delivery of services as expected by local community.
- \* Acting Water & Wastewater Manager – for a few months while current Manager on leave.
- \* Processing of Development Applications, Section 68 applications.
- \* General liaison with public related to water and wastewater enquiries.

Responsible to the Water & Wastewater Manager – Mr. Mark Rixon.

**BOMBALA COUNCIL – Project engineer (July 2012 – September 2013)**

- As of 13.06.2012 - PROJECTS ENGINEER on miscellaneous projects such as:
- Asset management – re collating information regarding water and wastewater reticulation system data for the townships of Bombala and Delegate
- Miscellaneous customer relations engineering tasks such as assessment of application to access Council roads from commercial properties. Included design assessment of intersection to comply with Austroads, management of S138, management of proposed dense development – in particular stormwater management, feedback re – road conditions and defects from residents, etc.
- Occasionally starting up the outdoor staff re – work delegations for the day.
- Miscellaneous site inspections, etc.

Responsible to the General Manager – Mr. Don Cottee

**COOMA MONARO SHIRE COUNCIL PROJECTS ENGINEER (February - March 2012)**

**PROJECTS ENGINEER on miscellaneous projects such as:**

- Water meter replacement program - project manager.
- Replacement of water aerator at Bredbo Water Supply Reservoir – Project Manager

**RELIEF WATER & WASTEWATER TECHNICAL OFFICER (March – June 2012):**

Duties included:

- \* Management assistance with Cooma, Bredbo & Nimmitabel Water reticulation systems.
- \* Management assistance with Nimmitabel Wastewater Scheme and Cooma Wastewater Drainage System
- \* Assisting with delivery of the capital works program.
- \* Maintenance of Water and Wastewater assets.

Responsible to the Water & Wastewater Manager – Mr. Max Butler.

**G.O. ENGINEERING CONSULTANTS P/L**

\* Currently Civil/Structural Engineer Subcontractor on a job to job basis.

\* Principal and Manager / Civil & Structural Engineer:- November 2004 – February 2012:

G.O. Engineering Consultants P/L offers a range of Civil and Structural Engineering Services including: - Road and Carpark Design, Engineering for Residential and Commercial Buildings, Infrastructure Works, Roads & Bridges, Drainage Water and Sewerage Systems, Engineering Surveying & Contract Administration. A few examples are listed below.

*Client – Sunpower – Perth – Structural Engineer and Site Supervisor for construction of over one thousands square meters uniquely shaped canopy to allow road traffic underneath while supporting a major solar cells development at Perth Zoo - 2012*

*Client – Seventh day Adventists Schools – VICTORIA – Multipurpose Hall at Heritage College, Narre Warren & Auditorium Hall – at Gilson College – Taylors Hill VIC – stormwater management and structural design and inspections.2010 & 2011.*

*Client – Cooma Monaro Shire Council – Project Manager – for Architectural & Engineering Design for Cooma Swimming Pool Refurbishment – including Contract Administration. Project Cost – \$1.25 mil - 2011*

*Client – Cooma Monaro Shire Council – Structural Engineering Design & Structural Inspections for Cooma Library Refurbishment. Project Cost – \$1.1 mil – 2011.*

*Client: Cootamundra Shire Council. Civil & Structural Engineer. Three million dollars proposed Town Hall Extensions at Cootamundra – Provide Structural and Hydraulical Design & Expertise. Project manager of the design team, including electrical engineer, mechanical engineer and quantity surveyor.*

*Client: Australian Land Co – Jindabyne. Civil & Structural Engineer. Six lots subdivision and 7 new luxury apartments. Included Structural Design for the Apartments and Civil Engineering assistance and design for the stormwater & sewer drainage and other services location.*

*Client : Southern Cross Broadcasting*

Civil Engineer / Contract Administrator. **Proposed developments in the South East NSW – Southern Cross Broadcasting.**

**Included:-** Architectural and Structural Drawings, Liaison with Local Council for DA and CC, Tender and Contract Documents preparation and Contract Administration for a 300k proposed digital building at Mount Roberts Cooma & Bombala.

*Client – Cooma Monaro Shire Council*

Structural Engineer /Contract Administrator - **Glen Wastewater Infrastructure upgrade (200k).**

Structural Engineer / Contract Administrator - **Nimmitabel Shed Collapse (400k).**

**Included:**

**For Glen Waste Water Filtration Shed & Treated Effluent Shed -** , same as for Southern Cross Building, from conception to completion;

**For Nimmitabel Project:-** collapsed building inspection and report, Architectural Drawings, Liaison with Local Council for DA and CC, Tender and Contract Documents preparation and Contract Administration to rebuild collapsed structure.

*Clients: - Various.*

Structural Engineer - **domestic new houses and proposed extensions.**

Structural Engineer - **commercial buildings.**

**Included: Flood design level (1:5 years) and bridge design over Murrumbidgee, Storm water design flow and management for Units at Jindabyne, all structural for miscellaneous building and miscellaneous compliance inspections.**

#### **ESAB CONSULTANCY P/L COOMA**

March 2002 – October 2004:

**Civil and Structural Engineer on numerous projects including:**

- Structural Engineer for commercial and residential buildings up to 3 storeys high.
- Project Management on Medium size projects (up to \$200,000).
- Structural Engineer for Bridge design (up to 11 meters span).
- Assisting Clients with Development and Construction Certificate Applications
- Structural Design as above for residential and commercial buildings
- Hoist Beams design and specifications for various projects within Alpine area.
- Fire and sound investigation and specification writing to BCA commercial projects
- Structural Design, Specifications, Tender Documents and Contract writing. Contract Administration for Perisher and Snowy River Shire Council.
- Investigation of existing structures and report writing for a variety of projects (e.g. Investigation of wind damaged roof for Silver Brumbies Lodge at Thredbo and production of design drawings for repairs, Investigation of existing Bailey Bridge at Swampy River Plain for NPWS and report writing for upgrading ).
- Other Projects Include: design and compliance inspection of a 300 metres long Retaining Wall Design for Thredbo - up to 5.0 meters high; includes a three span 36 meters long steel bridge, total project worth 1 million dollars.
- A 9 tonnes, 11 meter long access steel bridge at Lake Crackenback Resort for Australian Land Company.
- Design and supervision of new road construction – the Catwalk – KT Thredbo P/L at Thredbo – 2002.

#### **ITS Engineering Services P/L COOMA**

January 2002-March 2002

**Structural Engineer on various projects like:**

Site and soil classification on commercial projects.

Investigation, structural design check and report writing for existing commercial awnings

Suspended floor design.

Environment Impact Study for proposed Concrete Batching Plant – Cooma.

#### **OVERSEAS ASSIGNMENTS – SC Prescon Dorohoi, Romania**

July 1997– February 1998:

**Civil Engineer on two projects listed herewith:-**

Site Engineer for a Supermarket Refurbishment – liaison with client, construction workers and responsible for materials supply;

Warehouse Foundation Design and Site Supervision – engineering supervision including design check of the site drawings and workers responsible for materials supply as needed.

**Almost completed Masters of Engineering by Research** at ADFA School of Civil Engineering, UNSW, Canberra. Has written half of the thesis and published two papers on time stepping methods in Structural Dynamics.

## EDUCATION

ADFA, University College, UNSW Enrolled in a Master of Engineering by Research in Structural Engineering Course. Part time, off campus student with ADFA for completing Masters Degree.

**1998 - 2001**

Bachelor of Engineering (Hons), Civil Engineering; Technical University of IASI, ROMANIA, this included a three months scholarship at University of Trento, Italy in 1997, for preparation of the Final Degree Project

**1992-1997**

## CPD Related Activities:-

\* Five days training in Guidelines and Principles of Wastewater Treatment – Sydney 2014  
Three days training in Guidelines to treatment of Drinking Water – Surfers Paradise 2013  
Traffic Control – Blue, Yellow & Red tickets, Confined spaces certificate - **2013**  
Melbourne, Design Structures in reactive soils Workshop & Design Structures adjacent to trees Workshop – Melbourne - **2011**  
Precast Concrete Workshop – Melbourne - **2010**  
Two days Industrial Pavements Design Training Seminar – Brisbane QLD - **2008**  
Two days Wind Loading Training Seminar – Sydney NSW - **2007**  
Two days Stormwater Management Training Seminar – Sydney NSW - **2006**  
Two days Contract Administration Training Seminar – Perth WA - **2005**  
Business Development Program”. - **2005**.  
Concrete Design Workshop conducted by Cement and Concrete Association - **2004**;  
AS 1170 changes Seminar in Canberra - **2002**;  
Microstran training – ESAB Offices, - **2003**;

**Computer Skills:** Exponare, Practical, Authority, Microsoft Outlook and MS Office Suite; TEDDS, MathCAD, AutoCAD, Microstran.

Frequent use of Australian Legal & Technical documentation, e.g.:-

Local Government Act, AS 1170, AS 4100, AS 3600, AS 4905, AS 4906, Building Code of Australia, Bridge Design Code, etc

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## LANGUAGES AND DEGREE OF PROFICIENCY

English: reading writing and speaking – excellent

Romanian: reading, writing and speaking – excellent

Italian: reading writing and speaking – basic.

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## Professional interests:

- Committee member of Monaro Group of Engineers Australia
  - Regularly invited and sitting on interview panel to assess applications for new Chartered Professional Engineers – for Engineers Australia
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### **PUBLISHED WORKS**

Research Related Published Papers:

'A new algorithm for nonlinear structural dynamics', (Golley and Boaru) at Asian Pacific Congress of Computational Mechanics (APCOM'01), Sydney, 2001.

'Time stepping methods in Structural Dynamics', (Boaru) at Postgraduate Research Symposium, ADFA, Canberra, 2001.

### **REFEREES**

Mr. Grantley Ingram – Director of Regulatory Services – Snowy Monaro Regional Council - Bombala Branch M 0428 583 559

Mr. David Byrne - ex Director of Engineering Services - Snowy Monaro Regional Council - Cooma Branch - retired 2013:- M 0455 163 961.

Mr. Keith Walker

Projects Engineer - Snowy Monaro Regional Council - T 02 6455 1816 or 0416 249 776

Mr. Geoff Bowland Senior Civil & Structural Engineer with GO Engineering Consultants P/L  
M 0414 52 4699