

Chethana Maha Arachchillegedara

Civil & Infrastructure Engineer | Project Management Professional

Professional Summary

RMIT Honours Graduate (Civil & Infrastructure) with a unique career profile combining elite academic technical performance with proven entrepreneurial leadership. Following graduation, successfully founded and bootstrapped a business, supported by formal qualifications in Leadership and Management.

Currently pivoting back to the engineering sector, I have recently completed a Construction Management Specialization with Columbia University to refresh my technical competencies. I offer an employer the intellect of an Honours engineer (High Distinctions in Structural Analysis & Geotechnics), the resilience of a business founder, and the emotional intelligence required for modern site management.

Education and Engineering Qualifications

- **Bachelor of Engineering (Civil & Infrastructure) Hons.** | RMIT University, Melbourne | 2016
- **Construction Management Specialization** | Columbia University NY USA | 2026
- **Certificate IV in Engineering Drafting** | TASTafe, Hobart | 2025
- **Advanced Diploma and Diploma in Leadership and Management** | VTI Hobart | 2020

Professional Experience

Civil Engineer | Nemark Technologies PLC | Sri Lanka | 2016 - 2018

- **Bridge Rehabilitation (Capacity Upgrade):** Engineered the widening and strengthening of an existing bridge, increasing load capacity from 5T to 20T. Performed steel deck calculations and designed new abutments.
- **RCC Dam Remediation:** Analyzed a Roller Compacted Concrete (RCC) dam for a mini-hydro plant. Identified overturning risks at flood levels and drafted technical designs (AutoCAD) for structural modification.
- **New Dam Construction:** Designed the foundation and reinforcement for a 3m water storage dam based on soil analysis reports. Calculated concrete mix designs and total volume requirements.
- **Hillside Structural Design (Kandy, Sri Lanka):** Designed a 2-storey structure on a steep gradient, necessitating a complex retaining wall design for slope stability. Delivered full reinforcement detailing for foundations, columns, and slabs.

Founder | Domestica Hobart | Hobart, Australia | 2018 – Present

Founded and bootstrapped a commercial venture, utilizing engineering principles to design efficient operational workflows and manage resource allocation.

- Served as the primary liaison for a diverse stakeholder group across a 25+ property portfolio, building trusted relationships to resolve issues faster and maintain a 99% client retention rate.
 - Planned and executed work priorities aligned with strategic goals, successfully scaling a client portfolio from inception to 25+ properties through effective service delivery.
 - Conducted performance data and market trend analysis to inform strategic business decisions, mirroring the research and briefing skills required for developing evidence-based policy.
-

Continuous Professional Development / Certifications

- New Models of Business in Society – University of Virginia
 - Psychological First Aid – Johns Hopkins University
 - Communication Strategies for a Virtual Age – University of Toronto
 - Creative Thinking: Techniques and Tools for Success – Imperial College London
 - Emergency First Aid (HLTAID012) - Asuria RTO
-

Skills and Competencies

- **Engineering Software:** AutoCAD, 2D/3D, AutoCAD Civil, SPACE GASS, Microsoft Suit
- **Analysis :** Structural Analysis, Geotechnical Investigation, Cost Estimation
- **Management :** Strategic Planning, Financial Budgeting, Team Leadership (Diplomas).
- **General :** Advanced Excel (Data Modelling), Python