

# Phyoe Min Khant

0473 457 997 | phyoe\_min\_khant@student.unsw.edu.au | linkedin.com/in/phyoe-min-khant | Kensington NSW

## CAREER SUMMARY

- Final year Master of Engineering (Civil) student at UNSW with a current WAM of 91.4
- Performed structural calculations related to AS1170, AS1684, AS1720, AS3600, AS3700, AS4055, AS4100, AS4600
- Drafted structural drawings of floor plans and structural elements such as columns, beams, walls and roofs
- Model and analyse continuous span beams and portal frames in microstran validating with excel calculations
- Organized community events, talent recruitment and math competitions in leadership roles

## EDUCATION

**Master of Engineering (Civil)**  
**University of New South Wales**

Feb 2024 - expected Feb 2026

- Current WAM – 91.4 (HD); 97 in Concrete Structures, 95 in Steel Structures, 96 in Structural Stability

**Bachelor of Engineering (Civil) with Honours (First Class)**  
**University of Portsmouth (Final Year)**

May 2023

Years Attended: 2022 – 2023

**Yangon Technological University (Year 1 to Year 4)**

Years Attended: 2015 – 2021

- Myanmar Government Scholarship, Regional Highest Mark Scorer in Myanmar Matriculation Exam
- WAM – 87 (HD)

## RELEVANT EXPERIENCE

**Undergraduate Civil/ Structural Engineer**

Oct 2024 – Present

**Structability Consulting Engineers, Sydney, NSW**

- Design structural elements in timber, concrete, masonry, steel and cold-formed steel to comply with AS1720, AS3600, AS3700, AS4100, AS4600 and AS4773 and manufacturer guidelines
- Calculate wind loads for residential/ commercial buildings, roofs, carports, and awnings per AS1170.2 and AS4055
- Review historical and current Australian Standards to assess compliance of building practices and designs
- Develop standard templates for timber roof and building tie-downs per AS1684 and AS1720.1
- Model and analyse portal frames and continuous beams using MicroStran, validating with Excel-based calculations
- Produce structural drawings for micropiles, shotcrete retaining walls, timber trusses, etc
- Prepare technical reports, including defect causation and scope of works reports for clients

**Casual Academic (Demonstrator)**

Jan 2025 – Present

**School of Civil and Environmental Engineering, UNSW Sydney**

- Demonstrated workshops for CVEN2002 (Engineering Computations), ENGG2400 (Mechanics of Solids for Civil Engineers), and CVEN3303 (Steel Structures)

**Mathematics Instructor and Camp Organizer**

May 2023 – Jun 2023, May 2024 – Jun 2024, April 2025 – Present

**IMO Training Camp, Mathematical Society of Myanmar**

- Assessed student needs and designed tailored lesson plans for number theory addressing key areas of concern
- Increased understanding through transforming challenging concepts into simplified examples

**Engineering Intern, Graduate Structural Engineer**

Dec 2022 – May 2023

**MMHK Design, Construction & Consultant Co., Ltd., Myanmar**

- Performed structural analysis and design of three-story RC residential buildings with ETABS, verified with manual calculations in Excel, prepared 6 full structural drawing sets in AutoCAD

## ADDITIONAL EXPERIENCE

**Property Management Assistant and Concierge**

Feb 2024 – Mar 2024

**Sunway Global, Sydney, NSW**

- Conducted inspections, maintained records of a 28-story residential building, demonstrating strong organizational skills
- Managed front desk operations, including answering phones, handling mail, and managing reservations, ensuring 100 percent customer satisfaction

## EXTRACURRICULAR ACTIVITIES

**Professional Development Camp**

Sep 2024

**UNSW Civil and Environmental Engineering Society**

- Engaged with industry leaders to gain insights into workplace culture and engineering practices
- Collaborated in a group of 10 on an engineering design challenge, enhancing teamwork and problem-solving skills

**Professional Development Program**  
**UNSW Sydney**

Sep 2024

- Completed an intensive 3-day training course in business communication, customer service skills, networking skills and employer expectations in the Australian workplace

**Leadership Foundations Program**  
**UNSW Sydney**

Aug 2024

- Undertook training in growth mindset, promotion and global-citizenship through a 4-day workshop
- Developed self-reflection, active listening, and self-management skills to enhance leadership capabilities
- Gained experience in inclusive leadership and conflict management within team environments

**President**

January 2020 – January 2021

**YTU Civil Engineering Students' Association**

- Organized and facilitated fortnightly knowledge sharing webinars for three months
- Hosted one major fresher welcome and one major paying homage ceremony, fostering a sense of community and tradition

**Local Committee Vice President (Talent Management)**

May 2018 – Jan 2019

**AIIESEC in YTU**

- Organized 2 membership recruitments including interviews and assessments, ensuring selection of qualified candidates
- Trained and supervised more than 50 members to achieve goals, through regular assessments and providing constructive feedback for improvement
- Fulfilled entire organization's missions by making sure each of 5 departments meet targeted KPIs each month

**RESEARCH EXPERIENCE**

**Effect of Creep on the Load Bearing Capacity of Reinforced Concrete Columns**

Sep 2024 – Present

**Master Thesis, UNSW Sydney (Supervisor: A/Prof. Ehab Hamed)**

- Supervised by A/Prof. Ehab Hamed; investigates the accuracy of design standards (EC2, ACI 318, AS3600) in predicting the reduction in buckling capacity due to creep, using experimental data from literature
- Uses MATLAB to generate P-M interaction diagrams and compare short-term and long-term column capacities, incorporating nonlinear effects and sustained loading scenarios
- Aims to refine critical buckling load predictions and contribute insights to the 2025 revision of AS3600

**Study on Effect of Bracing Types in Earthquake Resistant Steel Building**

May 2023

**Honours Thesis, University of Portsmouth**

- Designed and analysed an 8-story earthquake-resistant steel building in ETABS to evaluate optimal bracing types using seismic codes including MNBC 2020, ASCE 7-05, AISC 341-16 and AISC 360-16

**PROFESSIONAL MEMBERSHIPS**

**American Society of Civil Engineers (Student Member)**

Mar 2025 – Present

**Concrete Institute of Australia (Student Member)**

Jan 2025 – Present

**Engineers Australia (Student Member)**

Feb 2024 – Present

**Institution of Civil Engineers (Student Member)**

Feb 2023 – Present

- Remain up-to-date with industry developments through monthly newsletters and attending professional development seminars

**TECHNICAL SKILLS**

- AutoCAD (2D Drafting), MicroStran, ETABS, SAP2000 and ANSYS (Modelling and Analysis)
- Microsoft Office Suite (Word, Excel, PowerPoint and Outlook) and MATLAB

**INTERESTS**

- Table Tennis: represented YTU in inter-university tournament 2018, gold medallist in YTU sport festival 2017, gold medallist in Regional Level Inter-School Table Tennis Tournament 2012
- Mathematics: Observer in 60<sup>th</sup> International Mathematics Olympiad in UK; Mathematics Perfect Scorer in Myanmar Matriculation Exam, Second Prize in Grade 5 and First Prize in Grade 9 National Level Mathematics Contests

**REFEREES**

- Ehab Hamed, Associate Professor  
School of Civil and Environmental Engineering, UNSW Sydney  
Contact details available upon request