

# AKSHARA YOGESVARAN

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I am a final year student studying environmental engineering at UNSW with an interest in sustainability in development, and humanitarian engineering. I thrive in challenging situations where I can use problem-solving, and am eager to seek out opportunities to learn about the environmental engineering industry. After completing an internship with Aurecon Australasia, I gained insight into the industry by conversing and working with civil and environmental engineers. I have developed my interest in Environmental Planning, Water Planning, Waste Management, Sustainability, Climate Change Risk, and Business Advisory. Outside the engineering space, I enjoy finding new ways to express myself creatively. Over the last decade, this keenness to build and be creative has allowed me to play the piano, sing, write and experiment with new software designed for drawing.

## EDUCATION

**UNSW Bachelor of Environmental Engineering (Honours)**

2021-2025

**Loreto Normanhurst HSC**

2015-2020

## INDUSTRY WORK EXPERIENCE

**2024/2025 Aurecon Australasia Internship Program – (Water Planning Team)**

- Assisted water engineers working in the water planning, concept design, and treatment teams at Aurecon.
- Worked alongside client directors to plan, document and facilitate client workshops.
- Built on technical knowledge by completing work on a practice project centred around designing gravity mains, pressure mains and pump stations.

Nov-Feb 2024/2025

## UNSW WORK AND VOLUNTEERING EXPERIENCE

**Casual Demonstrator**

DESN2000 Environmental Demonstrator

Term 2 2024

- Taught weekly, in person workshops consisting of 30 second year engineering students for each workshop.

**Civil and Environmental Engineering Society (CEVSOC)**

**CEVSOC Co-President (Present Role)**

Term 3 2024 – Present

- Managed and mentored a team over 50 engineering students consisting of 8 executives, 8 directors and 34 subcommittee.
- Supported portfolio executives with event execution, team management, work delegation, industry communication and financial resource management.

**CEVSOC Industry Mentoring Program (Mentee)**

Term 3 2024

- Participated in a 12-week program as a mentee to learn from engineers in the industry and refine my working skills.

**Vice-President (Community)**

- Managed a team of twelve consisting of two directors and ten subcommittee members.
- Managed events and initiatives such as Women in Civil Networking Night, Blood Drive, Pride in Engineering High Tea, Annual Social Cultural Night and Society Recruitment Initiatives.

Term 3 2023 – Term 3 2024

**Marketing Subcommittee**

- Designed merchandise and promotional material to market CEVSOC events to the UNSW Community.

Term 3 2022 – Term 3 2023

## **Engineers Without Borders UNSW (EWB)**

Marketing Subcommittee

- Designed merchandise and promotional material to market EWB events to the UNSW Community.

## **PROJECTS**

### **Aurecon Graduate Training Project – Bulk Water**

Designed and modelled a gravity and pressure main. Design flows and pipe alignment options were determined through an analysis of projected population growth, environmental constraints, and precinct plans. All models were developed on **Civil 3D**, and alignment options were presented using **Google Earth**.

Nov-Feb  
2024/2025

### **ENGG4102 – Humanitarian Engineering Project – Empowering Gili Project**

Working with official UNSW project partners toward ideating a variety of potential solutions to improve water accessibility and water quality in Gili Trawangan, Indonesia.

Term 3 2023

### **ENGG1000 – PROJECT EEVEE - Design and Build of a Cost-Efficient Battery Powered Remote Control Car (Grade: Distinction)**

Worked with a team of 7 to successfully deliver the key design objective of the project - to power a model car to travel the entire length of a ramp that is 50cm in height.

Term 1 2021

### **DESN2000 – NEXT GEN Electric Bus Depot (Grade: High Distinction)**

Worked with a team of 5 to design and market (reported) two concept designs for an electric bus depot.

Term 2 2022

## **AWARDS, SEMINARS and INITIATIVES**

- Women in Civil Networking Night 2024 – Overall Event Coordinator
- Women in Civil Networking Night 2023 – Marketing Coordinator, Event Photographer and Attendee
- Duke of Edinburgh (Gold Level)
- UNSW Founders Sustainable Development Goals Design Initiative 2022
- Engineers Without Borders Humanitarian Engineering Conference 2022
- Loreto Normanhurst 2020 Aston House Music Leader

## **OTHER WORK EXPERIENCE AND EXTERNAL VOLUNTEERING**

### **Five Senses Education**

Sales Representative and Web Sales Processor

- Worked in warehouse system management and order fulfillment for bulk school orders.
- Conversated with customers, often parents and teachers, to tailor resource packages that suited the learning requirements of their students or children.

Nov 2020 – February 2023

Mathematics Tutor

- Taught students aged 13-16 in advanced and standard mathematics.
- Developed learning plans for high school students that were suitable for their timetables, study habits and subject workload.

Jun 2023 – June 2024

## **PROFESSIONAL REFERENCES**

**Lauren Rose – Lead Water Engineer at Aurecon Australasia**

**Nina Kennewell – Water Practice Leader at Aurecon Australasia**

*Contact details upon request.*