

Andrew Lange

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Education

Bachelor of Science with a Major in Aquaculture Science and Technology

James Cook University, Townsville, Queensland (2017-2020)

Work Experience

Sea Simulator Technician Officer

Australian Institute of Marine Science | June 2023 – Current

- **System Setup and Maintenance:** Initiated and maintained complex aquatic systems tailored for marine research, focusing on crucial components like mechanical and biological filtration, UV sterilization, and foam fractionation.
- **Experimental Design and Management:** Engineered both simple and sophisticated experimental setups, accommodating various research needs and timelines. Assessed preliminary results to refine environmental settings for optimal research outcomes.
- **Monitoring and Adjustments:** Continuously monitored a suite of water quality and lighting parameters, utilizing advanced inline and handheld devices. Adjusted settings to replicate natural marine environments closely, including light cycles and water chemistry.
- **Data Collection and Analysis:** Systematically collected and analyzed data regarding organism health and environmental conditions. Prepared detailed reports and presentations to communicate findings to the research team and external stakeholders.
- **Research Support and Collaboration:** Collaborated closely with researchers and other technicians to design experiments and troubleshoot issues in the SeaSim. Contributed to scientific papers and internal reports.

Juvenile Technician

Ornatas | May 2021 – Dec 2023

- **Animal Husbandry and Monitoring:** Oversaw the daily care and monitoring of juvenile lobsters, focusing on optimal growth and health conditions. Adjusted feeding schedules and tank conditions based on detailed observations and growth data.
- **Operational Compliance and Safety:** Strictly adhered to SOPs and WHS regulations to maintain safe and efficient operation of the facility. Routinely

updated procedural manuals to incorporate new findings and optimize rearing techniques.

- **Experimental Research:** Led targeted experiments to study and mitigate lobster cannibalism, contributing to significant improvements in rearing strategies. Analysed behavioural patterns and developed new vessel designs to reduce stress and aggression among lobsters.
- **Documentation and Reporting:** Maintained accurate and timely records of water quality metrics, animal growth, and experimental results. Utilized advanced data management tools to ensure reliability and accessibility of information.

Aquaculture Technician

Spring Creek Barramundi | Nov 2020 – May 2021

- **Daily Operations and Monitoring:** Conducted routine tasks such as feeding, mortality checks, and environmental monitoring to ensure the health and welfare of barramundi populations.
- **Biosecurity and Hygiene:** Implemented strict biosecurity measures to prevent disease outbreaks, maintaining high cleanliness standards throughout the facility.
- **Record Keeping and Data Analysis:** Kept detailed logs of daily operations and environmental conditions, using this data to make informed decisions about operational changes and improvements.

Disability Support Worker

Community Connection (Townsville) | Mar 2017 – Dec 2021

- **Personalized Support:** Provided tailored support to individuals with disabilities, enhancing their daily living and participation in community activities.
- **Team Collaboration:** Worked alongside family members and other support staff to develop and implement comprehensive care plans.

Infantry Squad Leader

United States Marine Corps | 2012 – 2016

- **Leadership and Management:** Directed and managed a squad of Marines, ensuring preparedness and competence in various military operations.
- **Training and Development:** Developed and executed training programs to enhance tactical skills and unit cohesion.

Certificates

- Driver's License class C
- Forklift Ticket
- First Aid and CPR
- Advanced Resuscitation
- Low Voltage Rescue
- Mental Health First Aid
- White Card

Referees

Tom Barker

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