

- 0490 112 488
- say491@uowmail.edu.au
- m www.linkedin.com/in/samalexyoung
- % www.samyoungengineering.me

SKILLS 😩



Hard Skills:

Applied Machine Learning Biomedical Device Development Gesture Recognition Applied Research Game/App Development

Soft Skills:

Communication

Work Ethic

Problem Solving

Interpersonal skills

Teamwork

SOFTWARE 👗



Python

C#

MATLAB

Unity3D

Fusion360

Arduino

JavaScript

ACHIEVEMENTS



- * Published peer reviewed paper in IEEE International Conference on Advanced Intelligent Mechatronics -2019
- ❖ UOWx 500+ hours accreditation 2019
- ❖ UOW Dean's Merit List 2017
- ❖ Australia Day Young Citizen of The Year Award (Yass) – 2015
- UNSW Academic Achievement Award - 2015
- ❖ Don McColl Memorial Award 2015
- ❖ CWA Leadership & Service Award 2015
- ❖ Dux of Yass High School 2015
- ❖ Victor Chang Science Award 2014

EXPERIENCE |--



❖ Engineering and Information Sciences Research Assistant • Nov 2018 – Feb 2019

Developed gesture recognition system based on EMG and gyroscopic data. Increased prediction accuracy from 83% to 94.8%. Applied machine learning techniques and implemented a prosthetic limb interface. Lead author of corresponding published conference paper. DOI: 10.1109/AIM.2019.8868766

❖ University of Wollongong (UOW) Senior Peer Assisted Study Sessions Leader • Jan 2017 – Present

Created and delivered content for multiple engineering subjects. Have facilitated two subjects simultaneously and was the first Engineering and Information Sciences leader to spearhead the online platform.

❖ Peer Academic Coach • UOW • Feb 2019 – Present

Provided one-on-one support for a range of academic topics to help students develop their independent learning skills. Assisted with university challenges including exam preparation, study techniques and accessing resources.

❖ Biomedical Engineering Executive Academic Ambassador • UOW • Jul 2018 – Present

Facilitated networking and communication with students, clubs, communities and academic staff. Volunteered building free 3D printed prosthetics. Role modelled within tertiary and secondary education communities.

❖ Accommodation Student Leader • UOW • Nov 2017-Feb 2019

Supported residents, facilitated many wellbeing-focused events conducive to academic, personal and social growth. Trained in first aid, mental health, building/fire warden safety, drug and alcohol health.

EDUCATION 4

* Bachelor of Engineering Biomedical (Honours) (Scholar) • University of Wollongong • 2016 - Present

Dean's Scholar, Engineering Scholars and Advanced Scholarship Engineering and Information Sciences Academic Achievement Scholarship 16 High Distinctions, 7 Distinctions, 1 Credit Grade Point Average 6.6

❖ Higher School Certificate • Yass High School • 2015

ATAR – Scaled: 98.5

Dux of Yass High School | Ranked first in all subjects years 10-12

Principal's Award of Excellence, Faculty Award for Achievement years 10-12

PROJECTS 🐁

- ❖ Pattern Recognition for Infrared Technology Control using Soft Pneumatic Chambers and Machine Learning Techniques
- ❖ Pattern Recognition for Prosthetic Hand User's Intentions using EMG Data and Machine Learning Techniques
- ❖ Passive Multistage Wearable Chair with Integrated Metabolic Reduction Mechanism
- Shmack! Mind Puzzle Mobile Game
- ❖ Digit Strength and Mobility Analysis Glove
- ❖ Passive Postural Stability Orthotic Device Using Solely AM Techniques