

Declaration of Possible Conflict of Interest

Are you/Will you be* nominated for any positions in the Management Committee of other clubs/societies/JCRCs* or for the position of NUSSU representative of other clubs? (* Delete if Necessary)

Yes ☐ No ☒ If yes, please state the committee(s): _____

Declaration of Commitments

My current/potential commitments are: (IF YOU ARE STAYING IN A HALL OF RESIDENCE, PLEASE STATE HERE)

Teaching Assistantship for CS2243.

I don't stay in a hall, but I stay in PHPR.

(ATTACH ADDITIONAL A4-SIZED PAPER IF REQUIRED)

Declaration of Interest

Why I want to be a part of the NUS Students' Computing Club Management Committee:

I want to be involved in the student community by contributing toward ~~man~~ the IT support of the Computing Club. I hope to carry on ~~and~~ the current standard of work, and to ~~possibly~~ improve the IT support infrastructures in various possible areas.

(ATTACH ADDITIONAL A4-SIZED PAPER IF REQUIRED)

List down all skill(s)/experience(s) relevant for your intended position:

Please see attached CV, or view online at leeyixuan.info

(ATTACH ADDITIONAL A4-SIZED PAPER IF REQUIRED)

Education

National University of Singapore

BACHELOR OF COMPUTING IN COMPUTER SCIENCE AND MATHEMATICS

- Current CAP/GPA: 4.76/5.00.
- Specialization in artificial intelligence and numerical optimization.

Singapore

2017 - 2021

Nanyang Junior College

SINGAPORE-CAMBRIDGE GCE ADVANCED LEVEL

- Rank Point: 85/90.
- Distinction in H3 Science Research (Nanyang Research Programme - "Model of a Quantum Bit").
- Distinction in H3 Mathematics.
- Awarded Level Best in H2 Mathematics.

Singapore

2013 - 2014

Skills

Frameworks	Linux (Arch, Ubuntu, Fedora), ROS, Unreal Engine, CUDA, PyTorch, NodeJS, AWS, Arduino, WPF, MySQL DB, Android, Apache
Programming	C/C++, Python, C#, Javascript, HTML/CSS, Java, MySQL
Languages	English, Chinese

Experience

Adaptive Computing Lab - National University of Singapore

RESEARCH INTERN (PROF. DAVID HSU)

- Currently working on algorithms and systems for planning under uncertainty in research areas related to self-driving cars.

Singapore

Aug. 2019 - Present

Institute for Infocomm Research - Agency for Science, Research and Technology

RESEARCH INTERN (DR. YAN WU)

- Applied frame-wise convolutional and temporal convolutional neural networks to classifying materials using tactile data from the iCub robot.
- Investigated unsupervised approaches to classifying materials based on time-series tactile slide data: restricted Boltzmann machines, deep belief networks, variational autoencoders, deep Markov models.

Singapore

May. 2019 - Jul. 2019 | 3 mos

Advanced Robotics Center - National University of Singapore

RESEARCH INTERN (PROF. DAVID HSU, A/P MARCELO H. ANG JR)

- Developed and implemented practical and highly responsive planners for the navigation of car-like robots amidst moving obstacles.
- Integrated commonly used hardware and software packages in robotics perception, mapping, and localization: encoders, IMUs, lidars, stereo cameras, sensor fusion, Kalman filtering, PID control, gmapping, Monte Carlo localization, obstacle tracking.
- Software and electrical lead for the retrofitting and maintenance of test units.

Singapore

May. 2018 - Apr. 2019 | 1 yr

Data Storage Institute - Agency for Science, Research and Technology

RESEARCH INTERN (DR. VICTOR LEONG, DR. LEONID KRIVITSKY)

- Integrated various sensor and electrical components to software layers to facilitate the automation of experiments.
- Automated experiments to characterize the efficiency of avalanche photodiodes with respect to high voltage and temperature.

Singapore

Feb. 2017 - May. 2017 | 4 mos

Signals - Singapore Armed Forces

SOFTWARE DEVELOPER · SUPPLY ASSISTANT (COMMS.)

- Developed software for the automated planning of radio frequency networks. Subsequently adopted across the entire Army.
- Developed software for inventory and loan tracking in managing supply stores. Subsequently adopted across all stores in CCO Stagmont.
- Developed experimental software for the automated scheduling of lesson plans for signal courses while satisfying resource constraints.

Singapore

Feb. 2015 - Jan. 2017 | 2 yrs

Experience (Others)

School of Computing - National University of Singapore

TEACHING ASSISTANT

- Conducted weekly tutorial groups for CS1101S: Programming Methodology.
- Conducted weekly tutorial groups for CS3243: Introduction to Artificial Intelligence.

Singapore

Aug. 2018 - Present

- Oversaw manpower and logistical efforts for the organization of various academic related student run events.
- Organized various workshops and mock practical exams to acclimatize students to the content of core modules.

Honors & Awards

2019	Winner (Top 8) , Hack&Roll 2019	Singapore
2018	A*STAR Chairman's Honors List	Singapore
2017	A*STAR Undergraduate Scholarship	Singapore
2017	Full-time National Serviceman (NSF) of the Year Award	Singapore
2017	Commander's Coin (Chief Supply Officer)	Singapore
2016	Letter of Commendation (Signals Formation)	Singapore
2015	Commander's Coin (CO HQ Signals and Command Systems)	Singapore
2015	Best Soldier of the Month (HQ Signals and Command Systems) Award	Singapore
2014	Edusave Character Award	Singapore
2014	Edusave Award for Achievement, Good Leadership and Service	Singapore
2013	Represented Singapore to the World Robot Olympiad	Indonesia
2013	Second Place , National Junior Robotics Competition (Performance Category)	Singapore
2013	Third Place , National Junior Robotics Competition (Strategy Category)	Singapore
2013	Merit Prize , SUTD Technology & Design Challenge	Singapore
2013	Edusave Award for Achievement, Good Leadership and Service	Singapore
2012	Silver Award , Singapore Mathematical Olympiad (Senior)	Singapore
2011	Represented Singapore to the World Robot Olympiad	United Arab Emirates
2011	First Place , National Junior Robotics Competition (Performance Category)	Singapore
2011	Second Place , Singapore Robotic Games	Singapore
2011	Bronze Award , Singapore Mathematical Olympiad (Senior)	Singapore
2011	Edusave Award for Achievement, Good Leadership and Service	Singapore
2010	Represented Singapore to RoboCup	Singapore
2010	Second Place , National Junior Robotics Competition (Programming Category)	Singapore
2010	First Place , Singapore Robotic Games	Singapore
2010	Silver Award , Singapore Mathematical Olympiad (Junior)	Singapore
2009	Represented Singapore to the World Robot Olympiad	South Korea
2009	Second Place , National Junior Robotics Competition (Performance Category)	Singapore
2009	Edusave Award for Achievement, Good Leadership and Service	Singapore