NEO YU YAO TERENCE

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EDUCATION

2017- Present	National University of Singapore (NUS)	Bachelor of Engineering, Electrical Engineering (Hons) Bachelor of Science, Business Analytics (2 nd Major) Intended focus: Computational Intelligence Current Cumulative Aggregate Point: 4.85/5
		(Expected 1st Class Honours with Highest Distinction)
		Expected graduation in July 2021
2018	Hanyang University	Summer School, Grade Point Average: 96.2/100
2009-	Hwa Chong Institution	Singapore-Cambridge GCE 'A'-Level Examination
2014		Hwa Chong Science and Math Talent Programme
		Hwa Chong Centre for Scholastic Excellence
2013	University of Cambridge	University Enrichment Course (Advanced Mathematics)
2011	Second High School Attached to Beijing Normal University	Student Exchange Programme

PROGRAMMING SKILLS

Languages Working knowledge with: Python, C, R

Some Experience with: Assembly Language, Verilog, HTML, CSS, C++, JavaScript

Tools andWorking knowledge with:Pandas, Numpy, SKlearnFrameworksSome Experience with:Git, Vivado, LPCXpresso

WORK EXPERIENCE

2015- 2017	Republic of Singapore Air Force (RSAF)	Unmanned Aerial Vehicle Specialist Squadron S2(Intel & Training), Squadron S4(Logs)	 Planned and effectively executed military missions with reconnaissance drones Spearheaded procurement, deployment and inventory tracking of all unit's logistical assets Developed tracking systems with Excel VBA and predictive analytics that reduced unit's logistics manpower requirement by 500% Developed comprehensive training materials, conducted engaging lessons and designed assessments to upgrade intelligence collection capabilities of unit Resulted in 2nd placing in Top Notch Challenge 2016 Awarded coveted Outstanding RSAF Serviceman Award
2011- 2013	Project KeepInTouch	Co-Founder Chairman	 Founded and led a social enterprise, Project KeepInTouch Incorporated aggressive social media marketing and
2010	(Social	Head of Finance	business modelling that generated consistent daily profits
	Enterprise)	Head of Marketing	of SGD1,000 for beneficiary TOUCH Community Services
		and Design (2013) Webmaster	 Garnered the involvement and support of 56 schools Motivated and mobilised close to 3,000 volunteers
		Woomano	Mentored and inspired youths to champion social causes
			till date
2013	Singapore	Intern	Attachment to Mr Teng Tat Chong, Vice President, Chief
	Technologies		Technology Office and Mr Tan Sheng Cai, Senior Engineer,
	Kinetics LTD		Chief Technology Office
2012	Global	Intern	Attachment to GF Semiconductor Engineering Department
	Foundries		

RECENT PROJECTS

Sep 2018 -

Telco Customer Behaviour Prediction with Machine Learning

Oct 2018

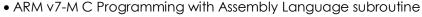


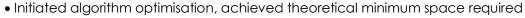
- Developed supervised learning models in Python, leveraging on Pandas, Numpy, Sklearn packages to analyse kaggle dataset
- Data pre-processing to maximise cross validation accuracies of predictions

Aug 2018 –



Sep 2018 { **C** } **ASM**





• Adopted parallel programming and memoization techniques to achieve a 2.5% run time of original algorithm

Jan 2018 –

Performance Lawn Equipment (PLE) Case Business Analytics

Apr 2018



- Analysed large data sets in R to describe and forecast business performance, market positioning and satisfaction levels of PLE to generate insights for company
- Utilised prescriptive analysis tools which resulted in optimised processes that maximised business profits and employee satisfaction

Feb 2018 -Apr 2018

Field-Programmable Gate Array (FPGA) Audio Manipulation & Effects in Verilog

• Signal manipulation for real time audio pitch shifting and sound delay



• Through signal analysis, successfully implemented noise filter and sound merging functions with low level programming

Mar 2018



Line Following Car with Arduino

- Assembled circuitry utilising components such as a L293D dual H-Bridge DIP for motor control, and light dependent resistors as sensors
- Designed scanning algorithm for the car to seek the line from any starting position

CURRENT CO-CURRICULAR ACTIVITIES

IEEE-Eta Kappa	Selected as one of the top Electrical and Computer Engineering undergraduates				
Nu (IEEE-HKN)	for an international honour society that recognizes superior scholarship, attitude				
	and character				
NUS ECE Peer	Identified by NUS Electrical and Computer Engineering Department to conduct				
Tutoring	lessons and mentorship for peers who are not doing as well academically				

NUS Aquathlon (Varsity), Squash, NUS Intellectual Games Club (Chinese Chess)

OTHER LEADERSHIP POSITIONS

SAF Specialist Cadet School	Leader Platoon Sergeant	2015
Table Tennis	President	2013-2014
Science Students' Research Council	Committee IC (Physics)	2013
Socrates Club (highly selective club that admits	Chairman	2011-2012
top 10 math students of each cohort)	Treasurer	2010-2011
National Affairs Council	Chairman	2012
Hwa Chong High School Council	Councillor	2009-2011
Centre for Scholastic Excellence Council	Councillor	2011-2012
Co-Curricular Activities Council	Councillor	2011-2012