Silvanus Sng

I am a confident and highly motivated person. I have an inquiring mind and always show a keen interest in exploring new strategies, especially in the area of Programming and Electronics. I believe that efforts today rewards tomorrow, if we work hard, our efforts shall be rewarded.

Blk 830A Jurong West St 81
Singapore (641830)
(+65) 8742 6292
Email:silvanus1999@hotmail.com
E-Portfolio:https://silvanus99.github.io/

EDUCATION

Singapore Polytechnic - Diploma in Mechatronics and Robotics Engineering

GPA: 3.6

April 2018 - April 2021

Institute of Technical Education - Higher Nitec in Mechatronics Engineering

GPA: 3.9

January 2016 - March 2018

Yuan Ching Secondary School - GCE N-Level Certification

January 2011 - December 2015

WORK EXPERIENCE

Gotong Royong 2020 - The ECOmpany

October 2020

Lead a day workshop for students at School Of The Arts explaining to them how peltiers works. Carried out a simple experiment that demonstrated the peltier seebeck effect.

Sick intelligence - Internship Equivalent

April 2020 - August 2020

I was the team leader and lead programmer of the 2021S1 Office transporter group. We were tasked to create a transport that is able to deliver documents around the Sick office in Singapore. I lead a team of 4 to design an office transporter that is able to meet the three objectives that were given to us from the company. I had to delegate tasks to my teammates to ensure that deadlines are met.

AWARDS

- Cogito Champion Team. Awarded in 2020
- CCA Gold With Honours. Awarded in 2020
- Lee Kuan Yew Scholarship to encourage upgrading. Awarded in 2018
- Lee Kuan Yew Technology Award. Awarded in 2018
- Greenwave Competition good presenter award. Awarded in 2017
- Greenwave competition 3rd place (ITE Level). Awarded in 2017
- International Science Enterprise Challenge Champion Team. Awarded in 2017

TECHNICAL SKILLS

I am proficient in using Inventor to design 3D modeling. During my studies in polytechnic, I designed the prototype for the floating energy. Using Inventor I was able to design and test the feasibility of the design.

I am also trained in using the milling and turning machine to fabricate components for my projects. I fabricated certain components which were used in the Autonomous Line Tracking Robot.

PROGRAMMING SKILLS

I am also experienced in certain programming languages such as C++ and ROS. Being the lead programmer of the Office Transporter, I had to design and create a programming code to allow the transporter to navigate its surrounding. I was also in charge of the programming for the Line Tracking Robot and can crusher.

SOFT SKILLS

I was the leader of the Office Transporter, I was able to communicate with my team and liaise with our teacher for instructions and changes that needed to be done. Our efforts paid off when my team and I received stellar results.

I am also confident in conducting presentations. I was invited to work on the Autonomous Ice-cream Man in ITE. My main job was to present the idea to the Lee Kuan Yew Technology judging committee. We were able to share our idea to the committee and achieved the award.

References

Dr Lim Chee Kian from Singapore Polytechnic

- lim_chee_kian@sp.edu.sg
- 9760 9620

Mr Tan Tuan Kiat from Singapore Polytechnic

- TAN_Tuan_Kiat@sp.edu.sg
- 9786 5234

Dr Khor Eik Fun from Institute of Technical Education

- khor_eik_fun@ite.edu.sg
- 6411 1348

To: Whom in concern,

I am currently a third year student at Singapore Polytechnic. I am writing to apply for the Poly goes UAS program 2021. It's my passion to find out how things work, especially in the area of Programming and Electronics. I have led a few project teams in both Institute Of Technical Education and Singapore Polytechnic and have garnered multiple awards.

There are two main reasons why I am applying to this programme. Firstly German engineers are known for their quality and precision. I can hone my skills while exploring the different sectors of engineering. Secondly I enjoy a more hands on approach when it comes to learning. I enjoy understanding how I can apply what I learn in class to real life applications. This program grants me the opportunity to work in different departments, this can help me understand the different sectors of engineering. It can also help me to learn more effectively.

I like to innovate and find ways to improve or simplify a product to make it more efficient. One of the projects I undertook was to tackle global warming. Knowing that many countries are moving towards clean energy, however due to space restriction, Singapore does not have many alternatives. Therefore my team developed a product that uses the light and heat energy of the sun to generate electrical energy. Using a device known as a Peltier, we are able to harvest the heat energy. talked about how I use the peltier.

Being proficient in designing and CAD Inventor, I was able to draw and assemble the office transporter to test its feasibility.I was also the lead programmer for some of the projects I did in Singapore Polytechnic. I have a good understanding of the flow of how programs work and have coded in C++. I am interested in developing smart products that can help improve our life.

I hope that I can have a chance to take on this scholarship and opportunity to further my studies and skills, so I will be able to contribute to the field of engineering.

Regards,

Silvanus