

Jun Siang Pang

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Dear Sir/Madam,

I am writing to express my strong motivation and interest in applying for the said position. As a passionate and dedicated electrical engineering master's student with a main focus on digital signal processing and a little bit of machine learning, I am ready to contribute my skills and knowledge to your innovative team.

During my master's studies, I participated in a laboratory that dealt with a variety of tasks in digital signal processing, ranging from signal analysis to adaptive filtering and machine learning problems such as data augmentation for deep learning and the integration of neural networks like RNN to solve larger problems.

As for my master thesis, which focused more on image processing. I was responsible for using existing deep learning methods to improve the image created by magnetic particle imaging. I integrated an image denoiser into an existing Python codebase containing traditional methods for image reconstruction. The image has significantly improved, and I later conducted an extensive parameter analysis to obtain the best parameters to further enhance the image.

Apart from that, I also possess fundamental knowledge in both analog and digital electronics, such as op-amps, capacitors, inductors and resistors. Additionally, I have studied advanced semiconductor devices like MOSFETs and MESFETs. During my master studies, my understanding extends to transistors and their role in constructing logic gates, which form the building blocks for various digital operations. This background equips me with skills to design, analyze and troubleshoot a wide range of electronic circuits.

Currently I am working as a test automation engineering intern that tests the latest software builds to ensure its functionality. I am also currently developing an internal software that allows test engineers to collect the data and check the health of the test benches.

I would bring my ability to this role and work collaboratively in a team and learn as much as possible to gain the knowledge needed to work on the tasks given to me. I am enthusiastic about different projects that not only excels in technology innovation but also being able to bring a positive impact on the future.

I am grateful to have the opportunity to apply to being a part of this team and I am willing to discuss more about the details of my personal skills and experiences.

Thank you for considering me and I truly hope I would be given the chance to be part of the company.

Sincerely,

Jun Siang Pang