

Tan Yi Kai completed his Bachelors of Engineering (Materials Engineering) degree from Nanyang Technological University in 2022, during which he was awarded the Singapore Industry Scholarship (SgIS) in conjunction with the Ministry of Education (MOE) and Advanced Micro Devices Singapore (AMD).

Upon completion of his undergraduate studies, Yi Kai contributed through multiple roles as part of the AMD SgIS rotation program, ranging from Package and Device Failure Analysis, Package Reliability and Data Architecture functions. He later joined AMD's Device Analysis lab to execute yield-improving Failure Analysis work at the device level, and drive automation projects in hardware and software domains.

Yi Kai subsequently joined Prof. Aaron Thean's Group in January 2026, where he will be pursuing a Masters of Engineering (Electrical and Computer Engineering) at NUS. He will be focused on leveraging on Physics-Informed Machine Learning models to improve the accuracy and reliability of Failure Analysis tools.



Profile links:

<https://www.linkedin.com/in/tan-yi-kai/>