

Name: **Ng Yen Ting**
Title: Scientist II
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Employment History

- May 2015 – Present: Scientist II, Planning and Operations Management Group, Singapore Institute of Manufacturing Technology (SIMTech), A*STAR, Singapore
- August 2007 – July 2010: Research Engineer, Planning and Operations Management Group, Singapore Institute of Manufacturing Technology (SIMTech), A*STAR, Singapore
- Oct 2006 – Jul 2007: Test & Development Engineer, Avago Technologies, Malaysia

Academic Qualifications

- May 2015: Ph.D. in Multi-criteria Decision Making for End-of-life Product Recovery, NUS Graduate School for Integrative Sciences and Engineering, Singapore
- Sep 2006: M.Sc in Modern Digital and Radio Frequency Wireless Communications, University of Leeds, UK
- Jun 2005: B.Sc in Electronics and Electrical Engineering, University of Leeds, UK

Research Interests

- Production and Resource Planning
- Energy Management
- Waste Management
- Life cycle Engineering
- Carbon Footprint Assessment
- Sustainability

Publications

- Y.T. Ng, K.S. Yap (2019) The Concept of eco-efficient Resource Planning for Production System, CIE49 Proceedings, 247 (Accepted)
- Low, J. S. C., and Ng, Y. T. (2018) Improving the Economic Performance of Remanufacturing Systems through Flexible Design Strategies: A Case Study Based on Remanufacturing Laptop Computers for the Cambodian Market. *Bus. Strat. Env.*, 27: 503–527. doi: 10.1002/bse.2017.
- Low, J. S. C, T. B. Tjandra, F.Yunus, S.Y. Chung, Daren Z. L. Tan, Benjamin Raabe, Y.T. Ng , Zq. Yeo, S. Bressan, S.Ramakrishna, C. Herrmann, A Collaboration Platform for Enabling Industrial Symbiosis: Application of the Database Engine for Waste-to-Resource Matching, *Procedia CIRP*, Volume 69, 2018, Pages 849-854
- Yen Ting, Ng; Yee Shee, Tan; Sze Choong, Low Jonathan, Internet of Things for Real-time Waste Monitoring and Benchmarking: Waste Reduction in Manufacturing Shop Floor, 24th CIRP Conference on Life Cycle Engineering
- Yee Shee Tan, Yen Ting Ng, Jonathan Sze Choong Low, Internet-of-Things Enabled Real-Time Monitoring of Energy Efficiency on Manufacturing Shop Floors, The 24th CIRP Conference on Life Cycle Engineering
- Y.T. Ng, W.F. Lu, B. Song, “Quantification of End-of-life Product Condition to Support Product Recovery Decision” 21st CIRP Conference on Life Cycle Engineering, 18-20 June 2014.
- Y.T. Ng, B. Song, Product Characteristic-Based Method for End-of-Life Product Recovery. In A. Y. C. Nee (Ed.), *Handbook of Manufacturing Engineering and Technology* (pp. 3377-3403): Springer London.pp3377-3403, 2014

- Y.T. Ng, H.M. Lee, B. Song, "Systematic Product Inspection and Verification to Improve Returned Product Recovery" 20th CIRP Conference on Life Cycle Engineering, 17-19 April 2013, pp 371-376
- Y.T. Ng, W.F. Lu, B. Song, "Improving Green Product Design with Closed-loop Product Recovery Information", 5th International Advanced Design and Manufacturing Conference, 25-28 Sept 2013, Key Engineering Materials Vol. 572, pp 12-15
- Y. T. Ng, S.W. Wong, W. F. Lu, B. Song, "Advancing Manufacturing Process Efficiency with EoL Product Recovery Information", Proceedings of EcoDesign 2013 International Symposium, 4-6 Dec 2013.
- Y.T. Ng, H.M. Lee, W.F. Lu, J.S.Z. Low, "Improving E-waste Recovery with Energy Efficiency Information of Products", Electronics Goes Green, Berlin Germany, 9-12 Sep 2012, Paper B6.4.
- Y.T. Ng, L.L. Wai, W. Fan, P.W. Gian, H. Lu and A.C.W. Lu, "Parametric Analysis of Electromagnetic Bandgap Structure for Noise Suppression Applications", 10th Electronics Packaging Technology Conference, pg 265 – 270, December 2008

Previous and Current Research Grants in Related Areas

- Co-I for A*STAR Science and Engineering Research Grant "Manufacturing Control Tower™ (MCT™) Phase 1 – Discrete Production Line for Learning Factory" (S\$5,000,000 funding)
- Co-I for RIE2020 Advanced Manufacturing and Engineering (AME) Domain's Core Funds – SERC Strategic Funds "Development of the Manufacturing Control Tower™ (MCT™) Technology Platform" (S\$465,408 funding)
- Co-I for RIE2020 Advanced Manufacturing and Engineering (AME) Domain's Core Funds – SERC Strategic Funds "Development of Brownfield and Online Simulation Demonstrators for Model Factory@SIMTech (S\$3,627,000 funding)
- Co-I for RIE2020 Advanced Manufacturing and Engineering (AME) Domain's Core Funds – SERC Industry Alignment Fund – Pre-positioning Program (IAF-PP) "Cyber-Physical Production System (CPPS) – Towards Contextual and Intelligent Response" (S\$18,473,400 funding)

Award

- 2010: A*STAR Graduate Scholarship