

YU-CHENG(JUSTIN) CHIOU

(+886) · 916 · 772 · 645
Justin.yucheng@gmail.com

EDUCATION

Masdar Institute , Abu Dhabi, UAE <i>Graduate School, Department of Micro System(withdrawal, family affair)</i>	Sep. 2016 - Apr. 2018
National Taiwan University , Taipei, Taiwan <i>Graduate School, Department of MSE(auditor)</i>	Sep. 2013 - Feb. 2015
University of Manchester , Manchester, UK <i>Master of Science in Advanced Engineering Materials</i>	Jun. 2010 - Dec. 2011

RESEARCH EXPERIENCE

Graphene study <i>Project</i> Varied temperature growth induce mixture of sp ² and sp ³ bonding. Graphene growth on arbitrary substrate, Ge GaAs etc.	May. 2018 - Present
2D-Materials Growth, AFM, First Principle <i>Side Project</i>	Sep. 2016 - Apr. 2018
Nano-Materials Growth <i>Side Project</i>	Sep. 2013 - Feb. 2015
Microwave Dielectric Ceramics <i>Master Thesis Project</i>	Jun. 2010 - Dec. 2011

WORK EXPERIENCE

Intel Microelectronic Asia Ltd. , Taipei, Taiwan <i>Senior Hardware Testing Engineer</i> <ul style="list-style-type: none">· Deveoped new products and testing plans for new products.· Coordinated resources for the USA headquarter and vendors, including Broadcomm, Realtek and Qualcomm, to fulfill technical and quality requirements of new products as well as assisting clients in phasing in this new Intel products into their future product lines.· Engineered sample fabrications, including soldiering, Jumper, and etc.· Implemented fauilure analysis, debugging and product improvements of current products.· Delivered NPI internal trainings to FAEs, AEs, and PMs as well as annual workshops to partners and clients.	Feb. 2016 - Aug. 2016, Jan. 2013 - Aug. 2013
Topco Scientific , Taipei, Taiwan <i>Executive Assistant to CEO</i> <ul style="list-style-type: none">· Surveyed novel materials for future use in transistors, solar cells and LEDs and reported to CEO directly.· Investigated in martet trend of future semiconductor industry.	Oct. 2013 - Jan. 2016
National Chiao Tung University , Hsinchu, Taiwan <i>Research Assistant</i>	Apr. 2012 - Aug. 2012

- Participated in wireless sensor networks design and application.
- Designed wireless surveillance system with information security mechanism.
- Investigated in super-capacitor recharge mechanism analysis-material selection.

Republic of China Air Force, Taipei, Taiwan
Sr. Aircraft Maintenance Aircraftman

Jul. 2008 - Jul. 2009

Implemented routine maintenance.

Guang Hua Digital Plaza, Taipei, Taiwan
Technical Support Engineer and Sales

Nov. 1998 - Apr. 2004

- Provided technical knowledge to customers (mainly 3C products and PC components).
- Customized computers of various customer needs.
- Issued reproduce and consult for clients.

SKILLS

Computer Skills	Matlab, C/C++, Python, Scheme
Simulation Skills	Sentaurus TCAD, Quantum Espresso
Analytical Instruments	SEM, Optic Microscopy, XRD, Raman Spectroscopy

PUBLICATION

Master Thesis

- Yu-Cheng Chiou, "Microwave Dielectric Ceramics," School of Materials, University of Manchester, 2011.

Journal Papers

- Sohail Shah, Yu-Cheng Chiou, Chia Yun Lai, Harry Apostoleris, Md.Mahfuzur Rahman, Hammad Younes, Ibraheem Almansouri, Amal Al Ghaferi, and Matteo Chiesa, "Impact of short duration, high-flow H₂ annealing on graphene synthesis and surface morphology with high spatial resolution assessment of coverage," *Carbon* 2017, vol. 125, pp.318-326.
- Harry Apostoleris, Yu-Cheng Chiou, Matteo Chiesa, and Ibraheem Almansouri, "Spectral management for temperature control in photovoltaic systems," *Optics for Solar Energy* 2017.
- Yu-Cheng Chiou, Tuza Adeyemi Olukan, Mariam Ali Almahri, Harry Apostoleris, Cheng- Hsiang Chiu, Chia-Yun Lai, Jin-You Lu, Sergio Santos, Ibraheem Almansouri, and Matteo Chiesa, "Direct Measurement of the Magnitude of the van der Waals Interaction of Single and Multilayer Graphene," *Langmuir*, 2018.