Tzu-Hsuan Chuang

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ENGINEERING EXPERIENCE Sep. 2020 – Present **R&D Engineer**, CUUMed Catheter Medical, New Taipei City, Taiwan Lead a 3M dollar project to develop next gen Intravascular Occluding Catheter for a Hong Kong customer. ☐ Develop new coating formulation for **ureteral stents**. ☐ Sustained new project development and product extension project. **Relative EXPERIENCE** Master, BioMedical Engineering, NCKU Feb. 2019 – June. 2020 ☐ Develop a Novel Radiotherapy Approach Using Nanomedicine For Keloids Treatment. □ Develop a prototype electrospinning device for the production of biobased nanofibers. ☐ Develop an Arduino model to detect the inspiratory flow rate. Project Management, Medical Device Innovation-BioDesign, NCKU Feb. 2019 – June. 2020 □ Coordinated with clinical doctors or researchers, during and after the study on an ongoing basis, to meet the quality requirements of the project. ☐ Worked with classmates to gain early exposure to clinical need identification, stakeholder interviews, ideation, and prototyping. To learn how medical innovations are brought from concept to clinical adoption. Research Assistant, Training Program for Interdisciplinary Talents of Biomedicine and New Agriculture, **NCKU** Jun. 2018 – Jan. 2019 ☐ Accomplished milestones of the Training Program project Oral Presentation, 2017 & 22nd Symposium of Association for Chemical Sensors in Taiwan May. 2017 ☐ Published the IVD test kits for Kiwi allergen Internship Programs, Yungshin Pharmaceutical Industrial Co. Jul. 2016 – Aug. 2016 ☐ Conducted the Fermentation process development for hyaluronic acid. Participated in individual and company training programs to advance good biotech, management, communication, and presentation skill. **SKILLS Computer:** ☐ **Python**: Experience in using various packages in python-using Pandas module to analyze data. □ SolidWorks: Perform product or mold design analysis, simulation, testing reports and eliminate design mistake. ☐ **MATLAB**: Develop model to trace Nano Particle from Ultrasound Image. Arduino: Design a prototype to measure the air flow rate in Catheter. **Lab Analytical Instruments:** ☐ **TEM**: 3D cell culture to obtain profile image of material for nano structural analysis ☐ **FTIR**: Detect chemical substance released from nano particles. ☐ HPLC: Measure the ability of Drug Loading into and In Vitro Release from Nanosized Drug Delivery Systems E-Wearing - the Honorable Mention Award at the Biomedicine Innovation DEMO Day contest Dec. 2019 **EDUCATION** Masters in Biomedical Engineering, National Cheng Kung University, Taiwan Feb. 2019 - Aug. 2020 Bachelor in Biotechnology Program, National Chung Hsing University, Taiwan Sep. 2013 - Feb. 2018 **COURSE** The Complete Python Pro Bootcamp for 2021-Udemy Online Dec. 2020 - Present

Aug. 2019 - Nov. 2019

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