林凱文

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Tainan

Ph.D., Engineering Science, National Cheng Kung University 2019 - 2023
M.S., Engineering Science, National Cheng Kung University 2017 - 2019

System integration / Image processing / Embedded system

DISSERTATION

- Development of an Optical Zoom Uncooled Thermal Imaging System for Environmental Observation — Doctoral Dissertation
- Development of Compact Immunoassay System for Helicobacter Pylori Detection — Master's Thesis

PATENT

- I752684 快篩試劑整合載台 — 2020 Oct.
- I734413 試片檢測設備 — 2020 Mar.

EXPERIENCE

- Bio Asia Taiwan 亞洲生技大展 – Exhibitor — 2020 Jul.
  - 於展覽中展示新型螢光快篩檢測原型機.
  - 作為新創公司參與此次生技展.
- 第十一屆「國研盃i-ONE儀器科技創新獎」 – Competition Team — 2019 Oct.
  - 以 "智慧行動裝置雲端快速居家健檢系統" 入圍初選.
  - 專案軟體開發主要成員之一.
- MEDICAL FAIR THAILAND 泰國曼谷國際醫療器材展 – Exhibitor — 2019 Sep.
  - 為世延生醫以及尖端醫開發新型專用檢測設備.
- ECPFA 亞洲工學院策略聯盟會議 – Engineering Student Representatives — 2019 Aug.
  - 作為工學院代表與來自各國工學院的頂尖學生以議題 “Clean Energy, Clean City” 進行交流.
  - 獲得此活動論文最佳簡報獎項.
- Bio Asia Taiwan 亞洲生技大展 – Exhibitor — 2019 Jul.
  - 於展覽中展示新型簡易型快篩檢測原型機.
  - 協助大陸廠商 Genesis 以及美國廠商 Vicam 開發新型專用檢測設備.
- 經濟部 - 科研成果價值創造計畫 – Participating Team — 2018 Dec.
  - 完成兩型原型機軟體各項開發.
  - 以檢測設備技術申請兩項專利.
- 成功大學技轉育成中心 - 成功大學創新創業Startup Festival年度成果發表會 – Publication Team — 2018 Nov.
  - 完成專案原型機開發, 並在發表會上展示.
  - 參與原型機硬體外觀設計以及電路設計, 並獨力完成軟體開發.
- Bio Taiwan 台灣生技月-台灣生物科技大展 – Exhibitor — 2018 Jul.
  - 於展覽中展示三台已開發用於不同功能的免疫分析儀原型機.
  - 參與原型機的硬體及電路設計, 並獨力完成部分機台軟體開發.
- 成功大學技轉育成中心 – 成大創新圓夢計畫 "Dreams Come True。原型打出" – Participating Team — 2018 Jun.
  - 參與設計專案 , 並以此獲得新創計劃補助.
- 第九屆「國研盃i-ONE儀器科技創新獎」 – Competition Team — 2017 Oct.
  - 以 "智慧行動裝置快篩檢測設備" 獲得佳作.
  - 參與原型機的硬體及電路設計, 並且為軟體主要開發人員之一.
- International conference "Transducers 2017" – Staff Member — 2017 Jun.
  - 協助會議的舉行、場地布置、人員引導、問題協助、協助溝通、幕後工作、事前準備等工作.

REFEREED JOURNAL PAPER

1. Lin, K.-W., & Chang, Y.-C. (2021). Embedded immunodetection system for fecal occult blood. Biosensors, 11(4), 106.
2. Lin, K.-W., Wang, T.-Y., & Chang, Y.-C. (2021). Impact of top electrodes on the nonvolatile resistive switching properties of citrus thin films. Polymers, 13(5), 710.
3. Lin, K.-W., & Chang, Y.-C. (2021). Use of the taguchi method to optimize an immunodetection system for quantitative analysis of a rapid test. Diagnostics, 11(7), 1179.

REFEREED CONFERENCE PAPER

1. Lin, K.-W. & Hou, T.-W. (2016, August). With a controllable mobile apparatus rapid test detection system (in Chinese). In Proceedings of the 20st Nano Engineering and Microsystem Technology Conference, Hsinchu, Taiwan.
2. Lin, K.-W., Weng, W.-C. & Lai, C.-F. (2019, June). Development of Immunoassay System for Helicobacter Pylori Detection (in Chinese). In Proceedings of the International Conference on Smart Sensors 2019, Hsinchu, Taiwan.
3. Lin, K.-W. (2019, August). Development of Compact Immunoassay System for Helicobacter Pylori Detection (Unpublished master's thesis). National Cheng Kung University, Taiwan.
4. Lin, K.-W. & Chang, Y.-C. (2020, October). Immunodetection System for Fecal Occult Blood Rapid Test. In Proceedings of the IEEE 6th International Conference on Applied System Innovation 2020, Taitung, Taiwan.
5. Lin, K.-W. & Chang, Y.-C. (2021, September). Using the Taguchi Method to Optimize Immunodetection System for Quantitative Analysis of Rapid Test. In Proceedings of the IEEE 7th International Conference on Applied System Innovation 2021, Chiayi, Taiwan.
6. Lin, K.-W. & Chang, Y.-C. (2023, April). Development of An Optical Zoom Uncooled Thermal Imaging System for Environmental Observation. In Proceedings of the IEEE 9th International Conference on Applied System Innovation 2023, Chiba, Japan.

SKILLS

- Python
- MATLAB
- SPSS
- Taguchi Methods
- SolidWorks
- AutoCAD
- Ansys