

沈璠興 (Shen,Yixing)

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Education

2008 - 2010

MSc, Power System, 中原大學電機研究所

2004 - 2008

BSc, Electrical Engineering, 中原大學電機工程學系

Skills & Tool

C, C# .NET, QT, Matlab/Simulink

Git, Subversion, Visual Studio Code, Code::Blocks, Keil uVision

Knowledge

Embedded System, RTOS,

Low Speed Serial Interfaces (I2C,SPI,UART,I2S),

HDTV/SDTV Digital Video Protocol, USB Video/Audio Class,

HDMI, MIPI, SDI, TI LVDS, CMOS Image Sensor Interface,

Composite Video Broadcast Signal,

Camera Motor Driver,

Experience

2013/06 - Present 義晶科技,系統整合及設計處,資深工程師

Develop and maintain EVB firmware and GUI WinForm using C# .NET and WIN32 API DLL

Develop embedded 8051 peripheral drivers, bootloader and application firmware

Integrate and port source code for daughter board and module firmware

- AVS761x/AVS715x EVB Tool
 - USB-to-SPI/I2C and UART-to-SPI/I2C
 - Register/DRAM/Flash Write/Read Operations
 - Generate AVS761x/AVS715x Initial Register Script for Different Scenarios Use
 - OSD Font Editor, Run-Length Encoder/Decoder, Motion Detection ROI
- Daughter Board
 - LVDS SerDes, HDMI Transmitter/Receiver, USB to I2C/SPI
- Module
 - HDMI/SDI/CVBS Receiver with USB Video Grabber

Multi-Input Digital Video Broadcast Modulator

HDMI 1x4 Video Wall

- General-Purpose MCU
Renesas: R5F1007E, R5F100GG
ST: STM32F103, STM32F030
- Altera FPGA EVB Platform Data Transport
Implement USB transport using LibUSB-win32 and QT5
- HDMI 1x4 Video Wall Layout
Implement EEPROM Burner and Video Layout Previewer
- EDID Parser Console
Implement EDID Parser and File Converter
- Flash Programming Console
Download Code to SPI Flash Device and Other Memory Operations

2011/12 - 2013/06 華晶科技,軟體驅動部,高級工程師

Developed and maintained lens controller firmware and calibration for MQX RTOS
Lens Device Driver (Zoom/Focus/Iris/Shutter)

- Nikon Digital Camera COOLPIX S02
- Nikon Digital Camera COOLPIX L28

2008/09 - 2010/07 中原大學電機研究所

- 應用人工智慧和訊號處理於電力系統
以機率神經網路,時頻分析及最佳化演算法建立一套特徵選取機制於電力品質干擾自動辨識[1][3]
運用Matlab/Simulink做為演算法開發及永磁式同步風力機最大功率追蹤控制[2]
- 協助大學部專題研究
DC/DC 升壓轉換器模擬及實做
永磁式風力發電機MPPT控制
- 期刊論文
[1] C.-Y. Lee and **Y.-X. Shen**, "Optimal Feature Selection for Power-Quality Disturbances Classification," IEEE Transactions on Power Delivery, Vol. 26, No. 4, pp. 2342-2351, Oct. 2011. (SCI; ISSN:0885-8977)
[2] C.-Y. Lee, P.-H. Chen and **Y.-X. Shen**, "Maximum Power Point Tracking (MPPT) System of Small Wind Power Generator Using RBFNN Approach," Expert Systems with Applications, Vol. 38, No. 10, pp. 12058-12065, Sept. 2011. (SCI; ISSN:0957-4174)
[3] C.-Y. Lee and **Y.-X. Shen**, "Feature Analysis of Power Quality Disturbance in Smart Grid Using S- transform and TT-transform," International Review of Electrical Engineering, Vol. 7, No. 2, 2012. (SCI; ISSN:1827-6660)
[4] C.-Y. Lee, Y.-H. Hsieh, H.-C. Lin and **Y.-X. Shen**, "Faults Diagnosis System of DC Motors Based on Empirical Mode Decomposition Model," Advanced Science Letters, Vol. 13, No. 1, pp. 279-284, 2012. (SCI; ISSN: 1936-6612)
- 研討會論文
[1] 李俊耀、鄭榮成、**沈璵興**、張智文、李易殷, "結合類神經與粒子群演算法於小型風機之最大功率追蹤," 台灣風能協會第二屆第二次會員大會暨2009台灣風能學術研討會, 2009年12月, 台灣科技大學, pp. 46-51.
[2] 李俊耀、**沈璵興**, "應用基因演算法和粒子群最佳化之地網規劃研究," 中華民國第29屆電力工程研討會, 2008年12月, 南台科技大學, pp. 2300-2304.
[3] C.-H. Hsu, C.-Y. Lee, G.-L. Liao, Y.-T. Jou, J.-M. Ho, Y.-H. Hsieh and **Y.-X. Shen**, "Generator Damage Recognition Based on Artificial Neural Network", Proceedings of World Academy of Science, Engineering and Technology, Vol. 65, pp. 577-580. May 2012. (EI; ISSN:2010-376X)