Fu-Chen Chen

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SUMMARY

3 years work experience in computer vision, 2 of 3 years in machine learning algorithm.

2 years of research experience in video processing & analysis.

Strong programming skills in C/C++, Verilog

PROFESSIONAL SKILLS

Languages

Proficient in: C/C++, Verilog

Familiar with: C#, MATLAB, Python

Ever used: Java, HTML, JavaScript , MySQL

Library

OpenCV, OpenMP

Specialty

- Computer vision

- Machine learning

- Video processing

- True motion estimation

- Codec

EXPERIENCE

Senior Software Engineer - Algorithm Developer   2010/12 - present

Pixart Imaging Inc., Hsinchu, Taiwan

- Machine learning

    Developed human sensing algorithms and chips including face detection, face recognition, expression recognition and face tracking accomplished by support vector machine (SVM), multi-class boosting, image feature extraction, image compression.

- Capacitor touch panel

    Developed algorithms and chips for capacitor touch panel including digital AM signal processing, finger extraction, finger separation and finger tracking.

- 2.4G modem

    Developed the modem part of RF chip and signal modeling including analog signal synthesis, digital FM signal processing, packet detection, frequency and timing offset recovery.

EDUCATION

National Taiwan University, *Taipei, Taiwan*   2008/9 - 2010/11

    Master of Science in Networking and Multimedia

    Overall GPA: 4.0/4.0 (93.04/100.00) Rank : 2/43

National Taiwan University, *Taipei, Taiwan*   2004/9 - 2008/6

    B.S Degree in Electrical Engineering

    Computer science subjects GPA: 4.00/4.00 (90.55/100.00)

PATENT

Home appliance control device, *First author*

    Issued April 9, 2013, US8417385 B2

    Issued March 20, 2013, CN102981459 A

Capacitive touch device, *First author*

    Filed March, 2013, United States

    Filed March, 2013, TW102107772

    Filed March, 2013, CN201310085351.2