Haiyun Xiao (Felix)

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Shenzhen
Objective: Audio DSP Engineer

PROFESSIONAL EXPERIENCE

Huawei *Jun 2016 - Present*

Audio Algorithm Engineer *Shenzhen*

- Responsible for Huawei terminal mobile phone audio test system design and algorithm development
- Audio automated testing replaces manual testing to improve the quality and efficiency of mobile phone production line audio testing

PROJECT EXPERIENCE

Mobile phone motor subjective noise interception system *Feb 2019 - Present*

Project Manager

- Collecting defective products and investigating motor noise test capability in the industry, setting up and verifying experimental platform, and selecting core test components for audio test system
- Output motor noise test overall solution, deliver motor noise test core test algorithm and c++ source code
- Organize and coordinate software, structure, automation and vision experts to review the program and determine the final solution of the equipment automation platform
- The algorithm achieved 100% interception effect in the laboratory, which was recognized by the organization of Huawei terminal motor, and established the first set of quantitative standards for the company's motor noise test

Mobile phone audio high-speed automatic quick check system *Mar 2018 - Apr 2019*

Audio Algorithm Engineer

- Responsible for the development of mobile phone audio subsystem test system, algorithm implementation, and field debugging
- Problem analysis and positioning, closed-loop the issue in various fields to achieve the phone Mic, Speaker, Receiver and motor function in a fully automated production line test
- After the launch of mobile phone audio high-speed automation equipment, the single test time of Mic、Speaker、Receiver and motor of each mobile phone less than 3 seconds, which can meet the requirements of rapid production and ensure timely delivery of Huawei mobile phones

Mobile phone motor touch experience detection system *Apr 2017 - Mar 2018*

Audio Algorithm Engineer

- Responsible for the establishment and implementation of motor touch detection algorithm model, laboratory verification, and the final delivery of the core detection algorithm and c++ source code
- The core test index includes the test standard of vibration acceleration, frequency, noise, start and stop vibration time and linearity index, which covers 100% of the test requirements of mobile phone motor and ensures the consistency of touch experience of Huawei mobile phone
- Establish a set of test standards for touch experience of Huawei mobile phone motor，and solve problems such as weak vibration and feeling of procrastination in the vibration process

EDUCATION

Northeastern University *Sep 2012 - Jun 2016*

Bachelor Electronic information engineering

SKILLS LIST

- Skilled in audio digital signal processing, Matlab, C++ and Python
- Experience in embedded software and unix programming
- Experience in Audio and acoustic measurement with off-the-shelf standard tools such as SoundCheck, Audio Precision, Bruel & Kjaer
- Understand the application of deep learning in speech separation, audio classification, and noise detection

TRAINING EXPERIENCE

- Participated in NTI and Klippel acoustic instrument testing training
- Communicated with Bruel & Kjaer acoustics experts in English about mobile phone audio detection technology

SUMMARY

- Passion for audio and music, curious about new technology, self-driven