Yuefeng **Wu**

+31 6-53296111 wyf1116@gmail.com
linkedin.com/in/yuefeng-wu-cn1116 github.com/innerTide
Boschdijk 17K, 5612 HA, Eindhoven, The Netherlands
Born on **Nov. 16th, 1992** in **Tieling, Liaoning, China**

Education

M.Sc. | Eindhoven University of Technology, Eindhoven, The Netherlands
Present | **Specialty : Embedded Systems, GPA : 8.5/10**
Aug. 2016 | Exit university of EIT Digital Master School

M.Sc. | KTH, Royal Institute of Technology, Stockholm, Sweden
July 2016 | **Specialty : Embedded Systems, GPA : 4.62/5**
Aug. 2015 | Entry university of EIT Digital Master School

B.E. | Tianjin University, Tianjin, P.R.China
July 2015 | **Specialty : Communication Engineering, GPA : 3.73/4, Ranking : 8/106**
Sept. 2011 | Faculty : School of Electronic Information Engineering (SEIE)

Professional Skills

Programming Languages : Java, C\C++, SystemC, Python, LabView, Ada, Basic, Shell, Assembly, R
Programming Platform : Android, Linux, μC/OS-II, Contiki OS, Microsoft Windows
Development Tools : IntelliJ Idea, Visual Studio, Understand, Maven, Git, Qt, MongoDB, GSON
Operating Systems : Microsoft Windows, Ubuntu Linux, Raspbian
Simulators : Noxim, Simics, Multisim, Proteus, Emergent
Miscellaneous : LaTeX, VirtualBox, OriginPro, Microsoft Office, Computer and Smartphone Maintenance

Work Experience

Present – *Jan. 2017* | **Master's Thesis Intern, imec NL, Eindhoven, The Netherlands**

- Supervised by Prof. Dr. Francky Catthoor, Dr. Anup Kumar Das, and Dr. Ir. Bart Mesman.
- Explore the communication mechanisms in neuromorphic computing.
- Extend Noxim to simulate of neuromorphic NoCs.
- Explore the possibility to adopt the segmented-bus architecture to neuromorphic chips.
- Research on cluster mapping strategies for the neuromorphic architecture.

SystemC | C++ | Spiking Neural Network | Network-on-Chip | Noxim | CARLsim | Mesh Network | Segmented-Bus

July 2015 – *Sept. 2012* | **Student Assistant, SEIE of Tianjin University, Tianjin, P.R.China**

- Assisted student counsellors with daily affairs and maintained office computers.
- Organised several student activities, collected feedback, and summarised experience.
- Explained knowledge points of professional courses to students who have learning difficulties.

Communication Skills | Computer Maintenance | Organisational Capabilities | Knowledge Explanation

Projects

Jan. 2017 – *Nov. 2016* | **IoT Broker of Smart Office Lighting System**

- The course project of Internet of Things.
- Designed the architecture of the broker.
- Implemented the app on Android for users to control lights.
- Implemented the broker's HTTP interfaces to the building manager's server and the user app.
- Integrated external applications, e.g. Avahi, Leshan, to the broker's program.
- Co-debugged the program with the other group working on the server application.

Java | Linux | Android | IntelliJ Idea | Maven | GSON | MongoDB | Leshan (LWM2M) | Avahi (mDNS/DNS-SD) | Mosquitto (MQTT) | VirtualBox | HTTP Protocol | Git

Sept. 2016 – Nov. 2016

Design of Dynamic Channel Selection Mechanism

- The course project of Networked Embedded Systems.
- Designed and implemented the mechanism for IEEE 802.15.4 on Contiki OS.
- Simulated the mechanism with Cooja Simulator and analysed the results.
- Composed the project report in academic English.

C++ | ContikiOS | Cooja | IEEE 802.15.4 | Git | LaTeX

Apr. 2016

Social-Networking App Based on Bluetooth Tags

- A solution to the Fashathon held by Future Fashion to provide a creative method for social networking.
- Designed the initial idea based on the challenges and supplied components with the teammates.
- Developed an Android app for demonstration in half a day.

Java | Android | Android Studio | Bluetooth

Mar. 2016 – Feb. 2016

Digital Image Processing Application on Multiprocessor Platform

- Laboratory work of Embedded Software.
- Implemented gray-scale and edge detection algorithms on a penta-core platform.
- Optimised the code and achieved the highest throughput in the class (almost three times as much as the passing standard).

C++ | μC/OS-II | NIOS-II | Multi-core Programming | Real-time System | Git | LaTeX | Eclipse

Sept. 2015

Eye-Protection Application Based on Tobii EyeX

- A solution to a weekend hackathon to assist users to maintain correct reading posture.
- Implemented the demo application with Visual C++ in one day.

Visual C++ | Tobii SDK | Visual Studio

June 2015 – Dec. 2014

Bachelor's Thesis : Security Mechanism Design for Wireless Networks and IoT Systems

- Designed an authentication mechanism for wireless networks of IoT and mobile devices.
- Implemented the mechanism demo with Android devices and CC2530 ZigBee modules.
- Awarded excellent graduation thesis.

C | Java | Android | NFC | Wi-Fi | ZigBee | Eclipse

May 2015 – Apr. 2014

User Identity Authentication and Exchange System

- A system to transfer the authenticated user identity to another device via a secured NFC connection.
- Implemented face detection and verification with cloud computing API (Face++).
- Designed and implemented a secured data exchange mechanism based NFC connection.
- Funded by National Student Innovation Training Program (STITP).

Java | Android | NFC | HTTP | Face++ API | Eclipse

May 2015 – Apr. 2014

Military Goose Step Evaluation System

- A system to measure and grade orderliness of the goose steps of different squares objectively.
- Designed the evaluation algorithm and implemented the system with NI LabView.
- Awarded the first prize in 13th Challenge Cup of Tianjin.
- Covered by several mainstream media in China.

NI LabView | Signal Processing | Wavelet Noise Reduction

Language

Mandarin	●●●●●	English	●●●●○
Dutch	●●○○○	Swedish	●○○○○

Awards

2015	**Outstanding Graduates of Tianjin University**	5%
2015	**Excellence Nomination Scholarship from EIT Digital**	Highest Level
2015	**Top 10 Youth of SEIE**	Highest Number of Votes
2014	**National Scholarship for Undergraduates**	0.2%
2013	**Tan Xu Guang Scholarship of Tianjin University**	20/20000+