Yuefeng **Wu**

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Boschdijk 17K, 5612 HA, Eindhoven, The Netherlands
Born on **Nov. 16th, 1992** in **Tieling, Liaoning, China**

Education

M.Sc. *Present* *Aug. 2016*	**Eindhoven University of Technology, Eindhoven, The Netherlands** Specialty : Embedded Systems, GPA : 8.5/10 Exit university of EIT Digital Master School
M.Sc. *July 2016* *Aug. 2015*	**KTH, Royal Institute of Technology, Stockholm, Sweden** Specialty : Embedded Systems, GPA : 4.62/5 Entry university of EIT Digital Master School
B.E. *July 2015* *Sept. 2011*	**Tianjin University, Tianjin, P.R.China** Specialty : Communication Engineering, GPA : 3.73/4, Ranking : 8/106 Faculty : School of Electronic Information Engineering (SEIE)

Professional Skills

Programming Languages :	Java, C\C++, SystemC, C#, 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

Internships

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's functionality for the simulation and the performance evaluation of neuromorphic NoCs. > Explore the possibility to adapt the segmented-bus architecture to neuromorphic chips. > Research on cluster mapping strategies for 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 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.
	> Proposed 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 a 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 for NFC.
	> Funded by Science and Technology 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 goose step uniformity 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 and covered by several mainstream media.
	`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+