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Guangyu Meng Resume

Education

Washington University in St. Louis *M.S. in Computer Science（GPA:4.0/4.0）* 01/2020-Present

University of Southampton *M.S. in Microelectronics System Design (*Classification with Merit Degree*)* 09/2011-12/2012

- Dissertation Title: Modeling an Artificial Foot and Researching the Position of Sensors

University of Birmingham *B.E. in Electronic Engineering (Honors Class II (division I) Degree)* 09/2010-07/2011

- Dissertation Title: Researching Bandpass Filter in High Frequency

Huazhong University of Science & Technology *B.E. in Electronic Science and Engineering (GPA: 3.7/4.0)* 09/2007-07/2010

- Graduate Project: Constructing a Variable Pulse Width Laser Detection System

Research

- Guangyu Meng," Research *on denoise by VAE-SRGAN", accepted by IEEE International Conference on Control and Computer Vision (ICCCV)*
- Guangyu Meng, Zhiqian Chen, *"Wavelets on Graph Neural Networks for analysis of traffic", in processing*
- Guangyu Meng, Jiaming Liu, U. S. Kamilov, *"Generative adversarial priors for image reconstruction", in processing*

Work and Internship Experience

Senior Software Engineer and Team Leader, Mentor Graphics Co., Ltd, Shenzhen Office 04/2016 - 11/2019

Mentor, a Siemens business, a leader in electronic design automation to enable companies to develop electronic products faster and more cost-effectively.

- Led the project of providing high-performance system verification solutions for the world's first commercial 5G chipset designed by Huawei Technologies Co., Ltd
- Optimized Huawei's testing code by transforming sequential execution to parallel execution, reducing runtime from 45 minutes to less than 8 minutes
- Promoted the company's new licensed technology (Veloce Coverage App) for code coverage; gave presentations on the annual technical forum at the Silicon Valley Headquarter and took charge of the training programming for Huawei
- Liaised between the Shenzhen office and the headquarters in Silicon Valley and Europe; travelled to Fremont as a technical support representative and guest speaker

ASIC Design Engineer, Spreadtrum Communications Co., LTD, Shanghai Office 01/2015-04/2016

- Built up and maintained module-level and chip-level emulation environment; leveraged popular simulation acceleration technology (like Palladium or Protium prototyping) in building modularized and scalable simulation platform
- Developed an emulation resource allocation program in Python to facilitate resource management, resulted in 20% increase in device utilization rate; developed a Desktop GUI application to help engineers from project team to conveniently use specific commands of our systems, freed our engineers from answering basic questions repeatedly

New Product Introduction (NPI) Engineer, Freescale Semiconductor, Inc., Shanghai Office 01/2013-01/2015

- Responsible for product line management, new package assembly design, and packaging process optimization
- Handled wafer mapping process; improved die bond machine capacity by 14.8% (from 3k to 3.45 die/hour)

Software Engineer Intern, Tencent Holdings, Shenzhen Headquarter 07/2011-08/2011

- Developed a multi-thread web crawler in Python based on Scrapy framework to gather information about the online advertising industry; wrote Python and SQL code to cleanse, format, and store data as records in MySQL database
- Built a linear regression model to predict the 10-year growth rate of overall market size and Tencent's market share

Certificates and Awards in Aritificial Intelligence

- Ranked 42/1717 in the ***"Global Wheat Detection" (still in processing)*** hosted by ***Kaggle***. 05/2020-present
- Ranked the top 1% in the ***Tencent Advertising Algorithm Competition*** hosted by ***Tencent Holdings*** 03/2018-07/2018
- Obtained ***Certificate of Achievement*** from ***Baidu*** by passing the "ABC" (AI, BigData, Cloud) qualification test 09/2018
- **Technical Skills**: Python, Java, Perl, C/C++, MATLAB, VHDL, Verilog, System C, System Verilog
- GRE: 152(verbal)+170(Quantitative)+3.0(Analytical Writing) TOFEL: 100: R 28, L 26, S 22, W 24