

Kaidong Peng
University of Illinois at Urbana-Champaign
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OBJECTIVE

Pursue PhD degree in Electrical Engineering studying photonics.

EDUCATION

Bachelor of Science, Electrical Engineering
Minor in Computer Science and Physics
University of Illinois at Urbana-Champaign, Urbana, IL May 2018 (Expected)
GPA 4.0/4.0

PROFESSIONAL EXPERIENCE

Undergraduate Researcher February 2016 – Present
University of Illinois at Urbana-Champaign
Photonic Systems Laboratory, Urbana, IL

- Fabricate an EDFA (optical amplifier) controller interacted with LabVIEW through RS-232.
- Set up and install 850nm single mode fiber-pigtailed laser diode module for experiments in lab
- Participate in Energy-Efficient Computing: from Devices to Architectures (E2CDA) funded by NSF and SRC
- Work on Silicon Nitride based waveguide loss measurement
- Work on energy efficient non-volatile optical switching

Student Instructor of Analog Signal Processing Honors Section (ECE210) September 2016 – Present
University of Illinois at Urbana-Champaign
Department of Electrical and Computer Engineering, Urbana, IL

- Teach students with basic skills and knowledge on the use of scientific computation tools, specifically MATLAB and Python
- Teach students basic signal processing and signal analysis techniques using software tools

Software Engineering Intern June – August 2017
Jump Operations, LLC
Core Development, Chicago, IL

- Build profit & loss and risk management module of intern bitcoin trading system project
- Build production trading platform verification and analysis tools

Teaching Assistant of Integrated Circuit Fabrication and Design (ECE444) January – May 2017
University of Illinois at Urbana-Champaign
Department of Electrical and Computer Engineering, Urbana, IL

- Lead one lab session and operate instruments including stepper, evaporator, four-point probe, measurement prob station and furnace

- Teach students processing procedures including RCA clean, oxidation, photolithography, etching, pre-deposition, evaporation, lift off and annealing in clean room
- Help students fabricate IC devices including resistors, PN diodes, inverters, MOS capacitors, bipolar junction transistors and various field effect transistors in clean room

Software Engineering Intern (Part-time)

January – May 2017

Jump Labs at Research Park

Champaign, IL

- Work on production Bitcoin trading platform
- Build trading strategy real-time control tool

Director of Publicity

June 2016 – May 2017

IEEE-HKN Alpha Chapter at UIUC

Urbana, IL

- Publicize organization and events on multiple kinds of media platform including Facebook page, weekly E-newsletters and building plasma screens
- Coordinate with director of corporate affairs to communicate with and co-host events with corporate representatives

Grader of Fields and Waves II (ECE350)

August – December 2016

University of Illinois at Urbana-Champaign

Department of Electrical and Computer Engineering, Urbana, IL

- Verify and correct homework assignment solutions
- Grade students' homework assignments

Data Analytics Intern

May – August 2016

Johnson Controls, Inc

GOSM Data Analytics, Milwaukee, WI

- Work on data platform of automated systems
- Build various data services and system automatic tests
- Build and complete a data management operational tool that greatly improves work flow

Data Visualization Research

August – December 2015

University of Illinois at Urbana-Champaign

Department of Computer Science, Urbana, IL

- Develop DarshanVis, an NSF funded scalable HPC I/O characterization tool
- Work on data visualization modules that characterize data throughput in different ways
- Co-author a paper

Software Engineering Intern

May – August 2015

Wuhan Tuxin Technology, Ltd

Wuhan, Hubei Province, PRC

- Build a web data management system using PHP and PostgreSQL
- Designed infrastructure including database schema
- Implement Microsoft Excel form export feature that dynamically generates forms from data collected at front end

Internship

May – August 2015

National Engineering Center for Satellite Positioning System

Wuhan, Hubei Province, PRC

- Learn satellite positioning technologies
- Help maintain some of the code infrastructure

COMPUTER SKILLS

Languages: C++, C, Python, MatLAB, Javascript, HTML, x86, Typescript, SystemVerilog, bash script, PHP, SQL, Java

Tools: LabVIEW, Origin, Comsol, PostgreSQL, MySQL, AWS, Microsoft Office bundles, LaTeX, Microsoft Visual Studio, Vim

Environment: Linux, Mac OSX, Windows

PUBLICATIONS

- Huong Luu, Amirhossein Aleyasen, Marianne Winslett, Yasha Mostofi, Kaidong Peng, “Toward Universal Analysis and Visualization of HPC Application Input/Output Behavior“, PMBS, 2015

AWARDS

- Edward and Margaret Ernst Award, *May 2017*
- Second Prize, Suzhu High School Outstanding Student Research Based Learning Award, *2012*
- Third Price, National Olympiad in Informatics (Jiangsu Province Division), *2012*
- First Price, National Olympiad in Mathematics (Hubei Province Division), *2011*

HONORS

University of Illinois James Scholar
IEEE-HKN Alpha Chapter Honor Society
University of Illinois Dean’s List 2014-2017

MEMBERSHIPS

Member, Institute of Electrical and Electronics Engineers (IEEE)
Former Director of Publicity, IEEE-Eta Kappa Nu Alpha Chapter at UIUC
Member, Chinese Engineering Students Association at UIUC

INTERESTS

Classical piano, classical music, boxing, skiing, soccer, basketball, bodybuilding