

# Kaidong Peng

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## EDUCATION

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### University of Illinois at Urbana-Champaign

Urbana, IL

- *Bachelor of Science, Electrical Engineering; GPA: 4.00 / 4.00*  
*Minor: Computer Science, Physics*

*Aug. 2014 – May. 2018(Expected)*

## PROFESSIONAL EXPERIENCE

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### IEEE-HKN UIUC Alpha Chapter

Urbana, IL

- *Director of Publicity* *Jun 2016 - May 2017*
  - **Publicity:** Publicize organization and events on multiple media platforms (Facebook page, E-newsletters, etc.)
  - **Communication:** Interact and work with department and corporate representatives on student affairs and events

### Photonic Systems Laboratory

Urbana, IL

- *Undergraduate Research Assistant* *Feb 2016 - Present*
  - **EDFA(Fiber Optic Amplifier):** Fabricate an EDFA controller interacted with LabVIEW through RS-232.
  - **Laser:** Set up and install 850nm single mode fiber-pigtailed laser diode module for experiments in lab
  - **E2CDA:** Participate in Energy-Efficient Computing: from Devices to Architectures funded by NSF and SRC
  - **Device End-to-End Testing:** Work on Silicon Nitride based waveguide characterization and loss measurement
  - **Optical Switching:** Work on energy efficient non-volatile optical switching

### Department of Electrical and Computer Engineering, UIUC

Urbana, IL

- *Student Instructor of Analog Signal Processing Honors Class* *September 2016 - Present*
  - **Scientific Computation Tools:** Teach students with basic skills on the use of MATLAB and Python
  - **Signal Processing:** Teach students signal processing and signal analysis techniques using software tools*Teaching Assistant of Integrated Circuit Fabrication and Design Class* *Jan 2017 - May 2017*
  - **Instruments:** Lead lab session and operate stepper, evaporator, prob station, furnace, etc.
  - **Cleanroom Processing:** Teach students RCA, photolithography, etching, evaporation, lift off, annealing, etc.
  - **IC Device Fabrication:** Help students fabricate integrated PN diodes, MOS capacitors, BJTs, FETs, etc.

### Jump Operations, LLC

Chicago, IL + Champaign, IL

- *Software Engineering Intern* *Jan 2017 - May 2017, June 2017 - Aug 2017*
  - **Jump Trading:** Build production trading platform verification and analysis tools as summer intern
  - **Jump Lab:** Work on production Bitcoin trading platform and build trading strategy real-time control tool

### Johnson Controls, Inc

Milwaukee, WI

- *Data Analytics Intern* *May 2016 - Aug 2016*
  - **Data Platform:** Work on automated system data platform and write system automatic tests
  - **Data Management:** Build a data management operational tool with web UI that greatly improves work flow

## PUBLICATIONS

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- Toward Universal Analysis and Visualization of HPC Application Input/Output Behavior, PMBS, 2015

## AWARDS AND HONORS

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- Edward and Margaret Ernst Award, 2017
- Suzhu High School Outstanding Student Research Based Learning Award, First Prize 2012
- National Olympiad in Informatics (Jiangsu Province Division), Third Prize 2012
- National Olympiad in Mathematics (Hubei Province Division), First Prize 2011
- University of Illinois Dean's List 2014-2017

## COMPUTER SKILLS

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**Languages:** C++, C, Python, MatLAB, Javascript, HTML, x86, Typescript, SystemVerilog, Bash, PHP, SQL, Java

**Tools:** LabVIEW, Origin, Comsol, Postgres, MySQL, AWS, Microsoft Office, LaTeX, Microsoft VS, Vim

**Environment:** Linux, Mac OSX, Windows

## INTERESTS

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