Kaidong Peng

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EDUCATION

University of Illinois at Urbana-Champaign — Urbana, IL
- *Bachelor of Science, Electrical Engineering; GPA: 4.00 / 4.00* *Aug. 2014 – May. 2018 (Expected)*
  Minors: Computer Science, Physics *Class Rank: 1/3188*

PROFESSIONAL EXPERIENCE

- **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.
  - ○ **E2CDA**: Participate in Energy-Efficient Computing: from Devices to Architectures funded by NSF and SRC
  - ○ **Optical Switching**: Work on energy efficient non-volatile, reconfigurable switching utilizing GeTe at 980nm
  - ○ **Device End-to-End Testing**: Work on Silicon Nitride based device measurement and characterization

- **Department of Electrical and Computer Engineering, UIUC** — Urbana, IL
  Student Instructor of Analog Signal Processing Honors Class (ECE210) *September 2016 - Present*
  - ○ **Scientific Computation Tools**: Teach students the use of computation tools specifically MATLAB and Python
  - ○ **Signal Processing**: Teach students signal processing and analysis techniques on software tools

  Teaching Assistant of Integrated Circuit Fabrication Theory and Fabrication Course (ECE444) *Jan 2017 - May 2017*
  - ○ **Instruments**: Lead lab session and operate lab instruments (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, MOSFETs, BJTs, other 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 network bandwidth analysis tools in summer
  - ○ **Jump Lab**: Build a trading strategy real-time control tool for production Bitcoin trading platform in spring

- **Johnson Controls, Inc** — Milwaukee, WI
  Data Analytics Intern, GOSM Analytics *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

- **IEEE-Eta Kappa Nu (IEEE-HKN) National ECE Honor Society** — Urbana, IL
  Member, Director of Publicity of UIUC Alpha Chapter *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

PUBLICATIONS

- Toward Universal Analysis and Visualization of HPC Application Input/Output Behavior, PMBS 2015
- The Dashboard: HPC I/O Analysis Made Easy, PMBS 2015

AWARDS AND HONORS

- Henry O. Koehler Merit Scholarship (Outstanding Scholastic Record in High-Standing Students), 2017
- Edward and Margaret Ernst Award (Excellence in Experimental Work), 2017
- University of Illinois James Scholar Honors Program
- University of Illinois Dean's List, 2014-2017
- National Olympiad in Mathematics (Hubei Province Division), First Prize 2011

COMPUTER SKILLS

Languages: C++, C, Python, MatLAB, Javascript, HTML, x86, Typescript, SystemVerilog, Bash, PHP, SQL, Java
Tools: LabVIEW, Comsol, Origin, PostgreSQL, MySQL, AWS, Mircosoft Office, LaTeX, Miscrosoft Visual Studio, Vim
Environments: Linux, Mac OSX, Windows

INTERESTS

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