

Dongen Bradley Zhou

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- EDUCATION
- ◇ **Ph.D., Electrical Engineering**, expected 2023
Drexel University, Philadelphia, PA
 - ◇ **M.S., Computer Engineering**, 2018.
Drexel University, Philadelphia, PA
 - ◇ **B.S., Computer Engineering**, 2016.
Drexel University, Philadelphia, PA
 - ◇ **B.S., Electrical Engineering**, 2016.
Drexel University, Philadelphia, PA
 - ◇ **Study Abroad**, 2014
Technical University of Denmark (DTU), Lyngby, Denmark

- EXPERIENCE
- ◇ **Teaching Assistant**, (09/2016 – current)
Drexel University, Philadelphia, PA, USA
ENGR 370, Vertically Integrated Project, Fall & Winter 2018-19, All-years research class
EET 202, Circuit Analysis II, Winter 2018-19, Sophomore Level Class
EET 333, NDE of Materials, Fall & Winter 2018-19, Junior Level Class
EET 324, Power Electronics, Spring 2017-18, Junior Level Class
EET 325, Microprocessors, Spring 2017-18, Junior Level Class
EET 322, Energy Conversion, Winter 2017-18, Junior Level Class
EET 317, Analog Electronics II, Winter 2017-18, Junior Level Class
EET 206, Analog Electronics I, Fall 2017-18, Sophomore Level Class
EET 205, Digital Electronics, Fall 2017-18, Sophomore Level Class
ECEP 480, Solar Power Engineering, Winter 2016-17, Senior Level Class
ECE 200, Digital Logic Design, Fall & Spring 2016-17, Sophomore Level Class
 - Created multiple laboratory tutorials and handouts
 - Instructed laboratory & recitation classes, held office hours
 - ◇ **Consultant**, (06/2016 – current)
Shanghai Da Cheng Cold Chain Logistics Co., Ltd., Shanghai, China
 - Providing technological solutions for logistical management, focusing primarily on:
 - Microsoft Excel (CSV) based solutions
 - Enterprise Resource Planning (ERP) functions
 - Efficient digital solutions for logistical transportations
 - Providing management strategies and suggestions for the founder and executive team
 - ◇ **Assistant Technical Consultant**, (04/2014 – 08/2014)
Dowa Advanced Materials (Shanghai) Co., Ltd., Shanghai, China
 - Assisted in updating ERP system throughout the corporation:
 - Analyzed and designed user portals and interfaces
 - Performed resource planning independently for various departments
 - Maintained database with the headquarters in Tokyo, Japan
 - ◇ **Assistant Data Analyst**, (07/2013 – 08/2014)
Bank of Shanghai, Shanghai, China
 - Managed commercial banking database for regional headquarters
 - Analyzed corporate banking data and provided assistance with Microsoft Excel (CSV) based solutions
 - Assisted to interview, analyze, and document corporate customers with the corporate banking team

- HONORS AND AWARDS**
- ◇ Dean's Fellowship, College of Engineering, Drexel University, 02/2016 - Current
 - ◇ Dean's Scholarship, College of Engineering, Drexel University, 09/2012 - 06/2016
 - ◇ Launch It! Scholarship, C. D. Close School of Entrepreneurship, Drexel University, 01/2014
 - ◇ Winner of [Break the Chain Contest](#), IntegriChain Incorporated, 06/2015
 - ◇ Champion, Student for the Advancement of Global Entrepreneurship (SAGE) China, 06/2008
 - Member of the Champion Team in SAGE China's Entrepreneurship Competition
 - Acted as an accountant for a multi-year charity project, selling donated goods
- RESEARCH**
- ◇ A Cyber-Physical Platform for Smart Power Exchange in a Photovoltaic Assisted Power Network - Master's Thesis Project, 01/2017 - 06/2018
 - Research in an advanced power exchange network using Programmable System on-Chip (PSoC) and Field Programmable Gate Array (FPGA)
 - Design High Level System for Power exchange using Digital Signals
 - Build mathematical models for analysis conducted on hypothetical user profiles
 - ◇ Autonomous Robot Control Using Vision - Senior Design Project, 09/2015 - 06/2016
 - Researched a comprehensive computer program that moves a Sphero robot autonomously out of a maze by recognizing and solving the maze based on camera vision at a bird's eye view
 - Designed and implemented cross-platform software solutions in processing visual data using Python based Breadth First Search (BFS) for Autonomous Planning and Scheduling (APS or AI Planning)
 - ◇ Satellite Image Processing - Freshman Design Project, 03/2013 - 06/2013
 - Analyzed satellite images for civilian infrastructures affected by Hurricane Sandy through designing and implementing a Matlab-based solution
 - ◇ Scale-Space Representation and Distance Transform Project, 01/2014 - 04/2014
 - Implemented different methods for the Matlab-based reconstruction algorithm
- LANGUAGE**
- ◇ Mandarin Chinese (Fluent), Wu Chinese (Fluent), English (Fluent)
 - ◇ Japanese (Proficient), German (Beginner), Danish (Beginner)
- SKILLS**
- ◇ C, C++, C#, Assembly, VHDL, Verilog, Pthread, OpenMP, CUDA, BASH
 - ◇ Python, Java, Perl, Apple Xcode, Matlab, Maple, R studio, Mathematica
 - ◇ Synopsis – Design Compiler, IC Compiler, HSpice
Cadence – RTL Compiler, Encounter, Virtuoso Suite
 - ◇ Mono Xamarin, \LaTeX , Xilinx Vivado, Cypress PSoC IDE, OrCAD Pspice Designer
 - ◇ Microsoft Office Suite – Excel, Outlook, PowerPoint, Publisher, Word
- GRADUATE COURSEWORK**
- ◇ Advanced Geometry (Cohomology), Dynamic Systems
 - ◇ ASIC Design I & II, VLSI Design, Custom IC Design, Advanced Computer Network
 - ◇ High Performance Architecture, Parallel Computer Architecture
 - ◇ Digital Electronics, Advanced Electronics, Digital Systems Design
 - ◇ Engineering Management I & II, Marketing: Identifying Customer Needs
- ACTIVITIES**
- ◇ Graduate Student Member, IEEE-SSCS
Drexel University, 12/2018 - current

- ◇ Graduate Student Member, Eta Kappa Nu (HKN) Honor Society
Drexel University, 03/2017 - current
- ◇ Graduate Student Member, IEEE
Drexel University, 09/2012 - current
- ◇ Staff, Drexel Recreation Center
Drexel University, 01/2015 - 09/2015
- ◇ Member, Cherry Hill Ken-yu Kai (UPenn/Princeton Kendo Club)
University of Pennsylvania, 09/2011 - 10/2016

REFERENCES ◇ **Dr. Baris Taskin**

Professor, Department of Electrical and Computer Engineering
Drexel University, Philadelphia, PA
E-mail: taskin@coe.drexel.edu

◇ **Dr. Lunal Khuon**

Associate Clinical Professor & Director of Research, Department of Engineering Technology
Drexel University, Philadelphia, PA
E-mail: lk479@drexel.edu

◇ **Dr. Vladimir Genis**

Professor & Department Head, Department of Engineering Technology
Drexel University, Philadelphia, PA
E-mail: genisv@drexel.edu