# Yigit Alparslan

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## Education

- Drexel University, Honors Program     Philadelphia, PA, USA
- **Accelerated Combined Degree**     Anticipated Graduation Year: 2020
- **B.S** in Electrical & Computer Engineering, **M.S** in Computer Science     **GPA: 3.97**

## Work Experience

**PJM Interconnection, LLC**     Audubon, PA
*Outage Analysis Technologies Coop*     April to Present 2018
- Automate system performance for applications, databases, servers, and networks via Python, and PL/SQL
- Compile and analyze data for report generation, customer requests, and production events
- Test new application functionality throughout the development lifecycle, including involvement in the design process
- Create design specifications by working with developers and come up with the associated testing documents
- Assist in the training process for new users and application enhancements

**Lem.ma Inc, Start-up at Drexel University**     Philadelphia, PA
*Graphics Developer*     May to September 2017
- Applied in-depth knowledge in advanced mathematics and linear algebra to create computational graphics by using Python and JavaScript in a start-up environment
- Concentrated on developing specialized computer programs exclusively applicable to complicated 2D and 3D graphics for the Lem.ma Inc website
- Worked together with designers, producers and other software developers in order to implement the educational content for the customers

## Engineering Projects

**Simulation of the Solar System**     Philadelphia, PA
*Developer*     January to March 2017
- Submitted design proposal to develop a solar system simulation by using MATLAB
- Designed and tested a graphical user interface to allow the user to choose the focus of the simulation
- Presented final results and coding/structure to a community of 25 people

**Website Development for Engineers Without Borders-Drexel University Chapter**     Philadelphia, PA
*Software Developer*     February 2017 to Present
- Designed and coded the front end of the website drexelewb.com with HTML, CSS and JavaScript
- Developed an interactive calendar for the website of Engineers Without Borders Drexel chapter
- Maintained the website for the club and coded for the weekly updates

## Honors and Awards

- National Physics Olympiad Silver Medal, Turkey, 2015 (Top 12 students in the country)
- Dean's List, Drexel University, 2016, 2017, 2018
- Drexel Global Scholarship, A.J Drexel Scholarship – FULL ride from Drexel, 2016 - Present
- Drexel STAR Research Scholar, Undergraduate Research Leader, DAAD-Rise Germany Scholar 2017- Present

## Research & Publications

**Evaluating Deep Neural Networks' Robustness – Drexel University**
- Performed 10,000+ non-targeted CW attacks to DNNs and reported an improvement of %44.3 on $L_2$ attacks
- National Collegiate Research Conference at Harvard University, Research Presentation on Neural Network Attacks

**Power Flow Simulations - Electrochemical Energy Systems Laboratory**
- Scientific Publication, "Obstructed Flow Field Designs for Improved Power Density in Vanadium Redox Flow Batteries", B. Akuzum, **Yigit C. Alparslan,** N. Robinson, E. Agar, E.C Kumbur, J. Applied Chemistry, 2019
- National Collegiate Research Conference at Harvard University, R Batteries, January 18-21, 2018, Boston, MA

## Languages

- Fluent in English, French and Turkish, Conversational in Italian.

## Activities

- Resident Assistant Drexel University March, 2019 – Present. Organize educational programs to promote inclusion, diversity, community, and security on campus, and enforce Drexel University protocols and regulations, stated in the University Conduct Handbook.
- Teaching Assistant, Drexel University 2018 - Present. Teach 25+ students in lab for introductory CS classes
- Participant, Philly CodeFest, January 2017. Coded for a chat box for international students FAQs
- Secretary, Drexel Chapter Engineers Without Borders, 2016 – 2018, Developed an interactive calendar for the website of Engineers Without Borders Drexel chapter by using HTML, CSS, and JavaScript
- Event Coordinator, Formula Electrical Vehicle Drexel, 2016 – 2018, Member number grew 60% during duty
- Event Coordinator, Frenchy Friends Peer-Mentorship Program, 2017- Present. Launched a peer mentorship program for students who want to practice French outside of classes. Awarded "Campus Awards" by the Embassy.