

# DEOKGEUN “DANIEL” PARK

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## EDUCATION

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**University of Illinois at Urbana-Champaign**  
Bachelor of Science in Mechanical Engineering

May 2018  
GPA 3.71/4.00

## EXPERIENCES

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### Chamberlain Group Inc.

*Consumer Products Engineering Intern*

Elmhurst, IL  
May 2016 – Aug 2016

- Modeled prototypes on Creo and used FEA software to validate the design.
- Utilized Winchill and SAP to file engineering change notices (ECN) and managed bill of materials
- Led testing efforts on durability, safety and transportation of the product.
- Active member of the Design FMEA and System FMEA process.
- Worked with in-house model shop and outside manufactures to get prototypes quoted and fabricated.

### Energy Transport Research Lab

*Undergraduate Researcher*

Urbana-Champaign, IL  
Aug 2015 – Present

- Studying droplet growth on superhydrophobic surfaces with simulations on ANSYS to determine heat transfer due to convection on droplets on hydrophobic and superhydrophobic surfaces.
- Published on American Chemical Society: <http://pubs.acs.org/doi/abs/10.1021/acs.langmuir.6b01903>

### United States Army/ Republic of Korea Army

*Aviation Operations Specialist – Sergeant*

Seongnam, Korea  
Jul 2013 – Apr 2015

- Coordinated with a team of 10 American soldiers and 7 Korean civilian workers to support 8<sup>th</sup> US Army Commanders and 2<sup>nd</sup> CAB Black Hawk operations, comprised of 30 helicopters and over 40 pilots.
- Maintained VHF and UHF radio systems and monitored aircraft movement using Blue Force Tracker.
- Served as a Korean Augmentation to the United States Army (KATUSA).

### Fermi National Accelerator Laboratory

*Student Researcher*

Batavia, IL  
Aug 2010 – Apr 2012

- Calibrated the efficiency of a set of Dark Energy Camera filters using python scripts on scientific UNIX to process astronomical data.
- Published article (*Initial Calibration of CCD Images for the Dark Energy Survey*) in the Journal of Experimental Secondary Science.
- Presented research at NCSSSMST Student Research Symposium in Annapolis, MD.

## PROJECTS

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### Smartphone Home Automation

Jul 2015

- Made a remote house light controller that can operate wirelessly via Bluetooth capability on a smartphone.
- Working prototype is comprised of a servo with extended arms, an Arduino and a Bluetooth receiver.

### EasyComp

May 2016

- Designed and constructed economical compost maker that can be used without electricity in third world countries.
- Conducted and completed design of experiments (DOE), cost analysis and bill of materials.

## SKILLS

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Applications: PTC Creo, Creo Sheetmetal Design, Winchill, SAP, FEA- Autodesk Mechanical (Algor), DFMEA, SFMEA, DOE, ANSYS SolidWorks, MATLAB, Excel

Operating Systems: Windows, Unix/Linux

Computer Languages: Basic knowledge in C