

# Justin Betancourt

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## Campus Address:

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## Permanent Address:

6185 Pinewood Ct. Unit 104  
Willowbrook, IL 60527

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## Education

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### University of Illinois at Urbana-Champaign

*Bachelor of Science, Materials Science and Engineering*  
Concentrations: Biomaterials & Polymer Materials  
Minor: International Studies

August 2013 - Present  
Expected Date of Graduation: May 2017  
GPA: 3.65/4.0

### Universidad Pontificia Comillas

SAPIENS Engineering Abroad Program

January 2015 – May 2015  
Madrid, Spain  
GPA: 9.08/10

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## Experience

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### Baxter Healthcare Corporation

*Pharma Solutions Intern*

Round Lake, Illinois  
May 2016 – August 2016

- Performed R&D studies pertaining to manufacturing issues on current pharmaceutical containers and new product development
- Executed experiments requiring various mechanical and physical materials characterization techniques and equipment utilizing rheology, tensile testing, impact testing, creep analysis, and spectroscopy, with appropriate data analysis
- Examined plastics processing techniques and their impacts on material properties through intern training seminars
- Led a 12-week project with the subsequent completion of a Class C study protocol
- Assisted other team members in materials testing experiments and gage studies
- Adhered to GDP in all assignments and helped support activities on implementation of 6S in lab
- Became aware of FDA regulations pertaining to materials selection, packaging, and traceability

### University of Illinois College of Engineering

*Current: Lead Instructor; Past: General Learning Assistant*

Urbana, Illinois  
January 2015 – Present

- Lead Instructor of ENG 100: Freshman Orientation course (Materials Science department)
- Facilitate classroom discussions & provide advice and support to ~30 new engineering students both in the classroom and through one-on-one meetings
- Design end-of-class group project for students to apply their materials engineering knowledge and facilitate creative thinking
- Plan lessons to prepare for each class lecture using PowerPoint and/or lecture notes to ensure active learning and problem solving
- Lead weekly meetings with the other instructors to make sure of class quality across all class sections

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## Leadership & Activities

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### Engineering Council

*Engineering Open House Committee: Traffic and Safety Director*

Urbana, Illinois  
May 2016 – Present

- Engineering Open House is an annual college-wide event, attracting over 10,000 visitors to the campus each year
- Communicate with the cities of Champaign and Urbana's Public Works Offices and Fire Departments to successfully and safely manage traffic around the campus for the event
- Work closely with the Engineering administration to ensure the (approximately) 300 exhibitors complete all necessary safety training(s) and that their exhibits are safe to perform in front of all audiences
- Help improve the visitor experience by providing free parking and shuttle buses to and from campus
- Participate in weekly meetings to share personal progress and provide help to other committee members

### Alpha Chi Sigma, Zeta Chapter (Professional Chemistry Fraternity)

*Current: Reporter; Past: President, Webmaster, Vice President, Recorder of Minutes*

Champaign, Illinois  
August 2013 – Present

- Communicate with the National Office on behalf of the University of Illinois chapter
- Educated 30 candidates on the values and practices of the fraternity
- Created a new website from scratch that receives ~60 page views daily
- Began a new annual event for current actives with network with chapter alumni that meets in Chicago (Professional Transition Forum)
- Attended and participated in a national conference in Charlottesville, VA, as the chapter delegate (Summer 2014)
- Participated in district conferences in Terre Haute, IN (Fall 2015) and Champaign, IL (Fall 2016) with the 4 other chapters in the district

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## Honors and Skills

- Awards: Dean's List (Spring 2014, Spring 2016), Illinois President's Scholarship, MatSE Hamer Scholarship
- Skills: C Programming, Python, Microsoft Excel, Materials Characterization, Plastics Engineering/Processing, Project Management, Multilingual (English, Spanish, & Catalan)
- Proficiencies in Plastics Engineering: Extrusion, Injection Molding, EBM/IBM, Creep Analysis, Prototyping, Packaging Engineering (enhanced traceability, anti-counterfeit technology, types of labeling, oxygen barrier technology)