

# Emmanuel Y. Klein

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124 East 102<sup>nd</sup> St New York, NY, 10029

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## EDUCATION

### **MS in Interactive Telecommunications**

May 2017

New York University

### **BS in Mechanical Engineering, 4.0**

December 2011

University of Maryland, College Park

Summa cum laude, University Honors, Mechanical Engineering Honors

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## COMPUTER SKILLS

Object Oriented Programming / CAD Design / FEA / Adobe Suite

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## ENGINEERING WORK EXPERIENCE

### **FlexEI LLC, Staff Engineer**

June 2013 - September 2014

- Lead a team in the design and development of a custom high performance battery
- Produced a closure system for the cell to meet complex constraints using FEA and empirical testing
- Engineered the tooling and fixtures for compound assembly requirements
- Created models to predict performance and characteristics of cells to guide R&D
- Part of an interdisciplinary team tasked with planning, implementing, and enforcing 5S and Lean methodologies into the thinking and practice of the company

### **Adaptive Motion Technologies LLC, CEO**

January 2012 - April 2013

- Founded a company to develop a new dynamic prosthetic socket for amputees
- Researched product requirements working with doctors, prosthetists, and amputees
- Produced prototypes for a new prosthetic socket and wound-healing device
- Created and developed intellectual property
- Structured the company and business plan to reflect its needs and those of the industry

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## ACADEMIC/RESEARCH EXPERIENCE

### **Wright Academics, Tutor**

September 2012 - April 2013

Tutored math and science with a focus on techniques for students with dyslexia and dysgraphia

### **University of Maryland, Research Assistant**

September 2011 - December 2011

Developed dynamic thermal models of viscous flow through porous mediums to increase electrical output in solar power plants

### **University of Chicago Economics Department, Intern**

June 2011 - August 2011

Researched strategies to maximize retention of cohorts for a longitudinal education study

Worked on software to organize, update, and utilize experimental data

### **University of Maryland Dynamics, Teacher's Assistant**

September 2009 - December 2009

Taught rigid-body dynamics to engineering students

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## OTHER WORK EXPERIENCE

### **Publishing and Marketing**

2012 - 2016

Designed, published, and marketed a picture book for adults called *The Well of Being*