Cassie Meeker

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QUALIFICATIONS SUMMARY:
A hard-working, motivated PhD candidate with demonstrated experience in research, machine learning, robotics, and data analysis. Seeks to bring a solution oriented attitude to a summer internship in data analysis.

Education:

Columbia University, New York, NY — February 2017
Master's Degree in Mechanical Engineering

University of North Carolina, Chapel Hill, NC — May 2014
Bachelor of Science in Applied Sciences and Engineering
Double minor in Physics and Spanish

Relevant Coursework:
COMS 3136 – Essential Data Structures
STAT 4400 – Statistical Machine Learning

Honors and Leadership:
Phi Sigma Pi Honors Fraternity — 2012 – 2014

Work/Research Experience:

PhD Candidate, Mechanical Engineering, Columbia University, New York, NY — September 2015 – Present
- Independent research in rehabilitation robotics and teleoperation
- Developed control mechanisms for orthotic devices and non-anthropomorphic hands using surface EMG
- Experience in data analysis, dimensionality reduction, and machine learning
- Primary author of three peer reviewed papers

Board Member, Women in Science at Columbia — September 2017 – Present
- Head of Digital Content
- Chair of STEM Starters
- Group leader at Girls Science Day, led middle school girls during science camp experiments
- After school teacher at Robogals, teaching 4th grade girls robotics after-school

Lab Manager, UNC Neuroscience Research Center — June 2014 – June 2015
- Hepatocyte and cortical neuron isolations
- Cell culture and drug testing on different cell lines

Research Assistant, UNC Biomedical Engineering department (Anne Taylor Lab) — June 2013 – December 2013
- Involved in design, manufacturing and testing of devices
- Drafted recommendations on potential improvements of existing topics/devices/products

Intern, Banner and Witcoff, LTD, Washington DC — May – August 2012
- Worked on biomedical related patent application for total knee arthroplasty
- Prepared drawings and drafted specification for arthroplasty patent (Pub.No. US 2014/0013565 A1)

Skills:

- Proficient using Python, ROS, sklearn, object oriented programming, CAD, Solidworks, Labview, and Matlab
- Experience with C++, STATA, 3-D printing and social media platforms
- Excellent writer, collaborator, communicator and researcher
- Proficient in Microsoft Word, PowerPoint, Excel, Publisher

Activities and Interests:

- President of Swing Club — 2012 - 2014
- Knitting, dancing, cooking, travel

References and writing samples available upon request