Lauren Ferrara

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EDUCATION	**UNIVERSITY OF NOTRE DAME**, Notre Dame, IN	Class of 2018
	B.S. in Computer Science, Design	
	GPA: 3.688/4.000	
	NOTRE DAME ROME ENGINEERING PROGRAM	May-July 2015

HONORS

Engineering Honors Program Secretary
- Facilitate networking between employers and members, advise members regarding research opportunities, code program's website

Sorin Scholars Program
- Attend weekly research discussions with members selected by professor recommendation for undergraduate scholarly engagement

EXPERIENCE

ROBOTICS, HEALTH, & COMMUNICATION LAB, Notre Dame, IN — Fall 2015-Pres.
Research Assistant
- Coded videos of pediatric orthopedic surgeries using ELAN, software that enables transcriptions over video files
- Researched teamwork and human error in the operating room to identify potential problems in the procedures from surgery videos
- Developing systems by programming Kinect sensors to recognize actions automatically for use in surgery to minimize human error

eMOTION & eCOGNITION RESEARCH LAB, Notre Dame, IN — Fall 2014-Pres.
Research Assistant
- Catalogued online chat transcripts to create a working text analysis using a minimum redundancy maximum relevance algorithm to identify sex offenders for police work
- Coded a Nao humanoid robot, using Aldebaran Choregraphe and the lab's DOMER system, to aid in therapy for Autistic children
- Conducted drone simulations with human subjects to understand moral decision-making using the Trolley Problem
- Analyzed transcripts from videos of stroke victims using the WeHab device, a reprogrammed WiiFit system, during therapy sessions

MOBILE COMPUTING LAB, Notre Dame, IN — Fall 2015-Pres.
Research Assistant
- Individually collected historical weather data using JavaScript and Weather Source API and created CSVs for these data
- Graphically analyzed the relationship between weather data and data collected from a student wellness study

GROWING THE FAITH, Innovation Park, South Bend, IN — Fall 2015
OneParish Computer Science Intern
- Used Agile, integration of Node.js, Backbone,js, and MongoDB, and Jade to code a website to incorporate all parish tasks
- Created working directory of parishioners with pagination

ACTIVITIES

Service Commissioner and Center for Social Concerns Representative, Lewis Hall — 2015-Pres.
IBM Watson Travel Team, Student International Business Council (SIBC) — Spring 2014

SKILLS

Computer: Adobe Suite, Arduino
Programming: C, Java, C++, JavaScript, Python, HTML5, Jade, MATLAB
Language: Intermediate Spanish, Beginner Italian