Lauren Ferrara

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EDUCATION	**UNIVERSITY OF NOTRE DAME**, Notre Dame, IN	Class of 2018
	B.S. in Computer Science	
	GPA: 3.765/4.000	
	NOTRE DAME ROME ENGINEERING PROGRAM	May-July 2015
HONORS	Engineering Honors Program	
	Sorin Scholars Program for Undergraduate Scholarly Engagement	
EXPERIENCE	**STRYKER MAKO ROBOTICS**, Fort Lauderdale, FL	May-Aug 2016
	R&D Software Intern	

- Developed tool using MATLAB, VBScript, and the SolidWorks API to automatically transfer SolidWorks assembly/part information and Enterprise Resource Planning information into a procurement form
- Created a MATLAB user interface for automated quality test of actuator subassembly
- Developed application for project managers using MATLAB interface and VBScript to automatically take project goals from Microsoft Project and create analyses of these tasks in Excel and PowerPoint
- Researched the Yocto open source project for embedded Linux development environment for various hardware subsystems

	eMOTION & eCOGNITION RESEARCH LAB, Notre Dame, IN	Fall 2014-2016
	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 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
	Research Assistant	

- Gathered 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 using both MATLAB and R

	GROWING THE FAITH, Innovation Park, South Bend, IN	Fall 2015
	OneParish Computer Science Intern	

- Integrated Node.js, Backbone.js, MongoDB, and Jade to code a website to incorporate all parish tasks
- Pair programmed working directory of parishioners with pagination

ACTIVITIES	*Teaching Assistant,* CSE 20311 Fundamentals of Computing	Fall 2016
	Service Commissioner and Center for Social Concerns Representative, Lewis Hall	2015-2016
SKILLS	*Programming*: C++, Python, C, VBScript, MATLAB, Arduino, Java, JavaScript, HTML, CSS, SQL, R, Jade	
	Language: Intermediate Spanish, Beginner Italian	