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Education	App Academy, New York 12/2016 – 3/2017 1000-hour full-stack programming boot camp with < 3% acceptance rate, with an emphasis on pair programming, Test Driven Development, and best practices.
	Binghamton University, State University of New York (ABET accredited) <i>Masters of Science, Mechanical Engineering – GPA: 3.88/4.00</i> <i>Minor, Mathematics –GPA: 3.74/4.00</i> Graduated in 5/2012
Projects	Full Stack: Int-structables @GitHub (Rails, PostgreSQL, JavaScript, React/Flux) A full-stack, single-page calculus instructional webpage. The frontend is written in JavaScript, React and Flux with the backend written in Rails. File uploading is done using Amazon Web Services. <ul style="list-style-type: none">• Multiple images uploading feature using Ruby Gem Paperclip, React Drop Zone, and Amazon Web Services.• Optimized a Search feature that queries the database only after a settable amount of time has passed.• Implemented a CRUD framework for users to showcase different Calculus ideas.
	Front End: CalcuGraph @GitHub (JavaScript, Canvas, CSS, jQuery, MathQuill, and mathjs) A single-page interactive browser graphing application. CalcuGraph is capable of the following: <ul style="list-style-type: none">• Real time rendering of function input and graph.• Approximating tangent lines using derivatives.• Approximating area under the curve using Left Endpoint Riemann Sums.
	Code Intensive: DOMinate (DOM interaction library) DOMinate is a JavaScript DOM interaction library inspired by jQuery: <ul style="list-style-type: none">• Manipulate multiple DOM elements.• Queue functions until DOM is fully loaded.• Provide and receive HTTP requests.
Experience	MG Engineering: Mechanical Designer 4/2016- 11/2016 Description: Assisted Senior and Principal Engineers in HVAC with focus on Variable Refrigerant Flow (VRF). <ul style="list-style-type: none">• Calculated heating and cooling load on residential and commercial buildings using TRACE 700.• Specified VRF equipment for design loads using multiple vendors. Equipment footprint, cost, and performance were evaluated for final recommendation to clients.• Produced Construction Documents in HVAC for high rise residential and commercial buildings using REVIT and AutoCAD.
	ME Engineers: Mechanical Engineer 10/2014- 3/2016 Description: Assisted Senior and Principal Engineers in HVAC, Plumbing, and Fire Protection designs. <ul style="list-style-type: none">• Re-designed a cooling system for a 300kW data center using high density modular units.• Assisted project managers in completing initial design work for Madison Square Garden, and an Ice Center in Bronx, NY.• Supported senior engineers in design calculations, surveying, specifying equipment, researching applicable mechanical, energy and building codes, and completing design specifications.
	Knolls Atomic Power Laboratory: Mechanical Engineer (Inactive Security Clearance) 4/2013- 9/2014 Description: Rotational projects in the Engineering Leadership Development Program. <ul style="list-style-type: none">• Programmed a data post processing tool to correlate relationships using least square regression (MATLAB).
Skills	Programming: Ruby on Rails, Ruby, SQL, HTML, React.js, Redux, CSS, JavaScript, MATLAB and UNIX. Engineering Programs: AutoCAD, REVIT, TRACE 700, COMSOL, LabView, and Pro/ENGINEER. Document Processing: Word, Excel, Outlook, PowerPoint, and Bluebeam PDF.