**Your Name**

150 W. University Blvd., Melbourne, FL 32901 - Name@my.fit.edu - 321-555-1212
[www.linkedin.com/in/yoururl](http://www.linkedin.com/in/yoururl)

**Education**

**Florida Institute of Technology, Melbourne, FL** May 2020

Bachelor of Science Chemical Engineering, GPA 3.75

**Skills**

Java, C++, VBA, C#, CSS, MATLAB, Simulink, Aspen Plus, Scanning Tunnel Microscopy (STM), Atomic Force Microscopy (AFM), Confocal Microscopy, Energy Dispersive Spectroscopy (EDS), MS Office

**Experience**

**Florida Institute of Technology, Melbourne, FL** Aug 2016 - Present

*Chem-E-Car Captain*

* Created small ethanol hybrid drivetrain car and synthesized ethanol fuel
* Integrated PID Arduino software control for throttle response reading generator output in C++
* Performed ethanol batch distillation

*Compact Natural Gas to Oxygenated Gasoline Process*

* Performed literature review of available green methods of combustible fuel synthesis
* Created higher fidelity isothermal plug flow reactor model in Excel VBA using source thermodynamic and kinetic data
* Performed process modeling and optimization in Aspen Plus, Aspen Properties, and Aspen Hysys

 *Chemical Process Controls Project*

* Illustrated chemical manufacturing advanced controls Process Flow and Instrument Diagram (PFID)
* Simulate chemical process with MATLAB and Simulink
* Analyzed dynamic data of control variables and developed transfer functions to model process
* Developed dynamic models into single loop control settings for PI controllers and commercial PID controllers

*Materials Characterization*

* Analyzed materials with STM, AFM, SEM, EDS, and Confocal Microscopy

**Harris Corporation, Palm Bay, FL** May 2019 - Aug 2019

*Microelectronics Intern*

* Developed data analysis in Excel VBA to remove data drift and identify functional MEMS actuators
* Researched methods of materials surface preparation and cleaning for scaled down applications
* Performed materials and contaminate analysis with SEM, EDS, and optical microscopy
* Developed and implemented contaminate prevention method for manufacture of MEMS with modification of diamond saw coolant and ultra clean water chemistry
* Presented final intern project showcase to Harris executives and judges

**Computer Repair and Systems Consulting, Melbourne, FL** Jun 2014 - Aug 2017

 *Consultant*

* Repaired electronic devices from desktops and laptops to mobile phones and game consoles

**Honors**

* Outstanding Sophomore in Chemical Engineering
* AICHE Outstanding Freshman
* Florida Tech Distinguished Student Scholar
* Dean’s List
* Phi Kappa Phi

**Co-curricular Activities**

* American Institute of Chemical Engineers – Treasurer
* Association of Computing Machinery