

## **Tonderai Sibanda**

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### **EDUCATION**

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**UNIVERSITY OF SOUTHERN INDIANA**, Evansville, Indiana **2016 - 2020**

- BSc in Electrical Engineering, BSc in Engineering, with a minor in Mathematics, December 2020
- Key Coursework: Calculus I-III, Differential Equations, Theory of Probability, Statistics, Data Mining, Electrical Machines, Circuitry, Electronics, Electrical Power, Microcomputer Engineering
- Skills – MATLAB, Tableau, Microsoft Office, R, Python, Verilog, Multisim, Process Improvement

**HARVARD BUSINESS SCHOOL ONLINE**

**2020 - 2020**

- Certificate in Business Analytics

### **EXPERIENCE**

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**METRONET**, Evansville, Indiana

**09/2019 – 12/2020**

#### **Process Improvement Intern**

- Analyzed process standards and metrics and provided solutions for improvements.
- Performed data gathering, root cause analysis, and performance trending to develop appropriate process control changes.
- Informed respective teams on process improvement and re-engineering strategies.
- Updated and maintained documentation on process improvements and process performance.

**BERRY GLOBAL**, Evansville, Indiana

**05/2019 - 08/2019**

#### **Engineering Intern**

- Reviewed manufacturing processes used for thermoforming projects and documented steps requiring further explanation from the Quality Assurance department.
- Designed and detailed mechanical parts and cable assemblies using SolidWorks.
- Utilized MultiSim and Verilog to develop electrical schematics needed for the annual electrical systems maintenance.
- Analyzed productivity data and published results on the company's Tableau page biweekly.

**UNIVERSITY OF SOUTHERN INDIANA** Evansville, Indiana

**08/2017- 05/2019**

#### **Undergraduate Data and Research Assistant**

- Processed data and generated reports to distribute to appropriate team members, including the Provost's office.
- Applied good documentation practices in recording data and management of source documentation.
- Used data to create models that depict trends in the enrollment and retention rates of students.
- Utilized various platforms such as Tableau, SPSS, and Qualtrics in data collection and analysis.

### **Leadership**

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**NET IMPACT- USI CHAPTER**, Evansville, Indiana

#### **Chapter Leader**

- Organized various social and community building activities in and around Evansville.
- Worked on promoting sustainable use of natural resources and promoting social entrepreneurship ventures.
- Worked with the Geology and Environmental Club on campus to form a recycling club to curb the improper disposal of plastic materials.

#### **CLINTON GLOBAL INITIATIVE – USI CHAPTER Campus Representative**

- Identified and mentored other students with brilliant ideas for social ventures for the Clinton Global Initiative University annual convention.
- Clinton Global Initiative Representative at the University of Southern Indiana and the local community.

### **Additional Skills and Achievements**

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- Member of Volunteer USI with more than 100 hours of voluntary work in the Evansville community.
  - 2019 Microsoft Travel Grant recipient.
  - National Society of Black Engineers Collegiate member.
  - Institute of Electrical and Electronic Engineers Collegiate member.
  - 2019 World Youth Forum participant.

# Tonderai Sibanda

[tonysibanda81@gmail.com](mailto:tonysibanda81@gmail.com)

Learn more about Tonderai at [portfolium.com/r/6514366](https://portfolium.com/r/6514366)

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## Summary

Recent graduate with a BSc in Electrical Engineering and General Engineering currently looking to transition into the Sustainable Energy space. My interests lie at the intersection of energy, environmental sustainability, and a low carbon future. I am passionate about renewable energy research, sustainable use of natural resources, and applications of data analytics to solve problems associated with climate change. I am curious about energy governance and policy, decarbonization pathways, access to affordable, efficient, and clean energy up to the last-mile consumer, and structuring financing for cost-competitive energy solutions.

My undergraduate engineering curriculum and extensive internship experience have equipped me for roles in:

Electrical Engineering

Renewable Energy

Maintenance and Reliability Engineering

Field Engineering

Data Analytics

Project Management

General Engineering

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## Skills

[MATLAB / Simulink](#), [Tableau](#), [Matlab Programming](#), [Time Management](#), [Microsoft Excel](#), [Arduino Programming](#), [MATLAB](#), [Analysis](#), [Verilog programming](#), [BLE](#)

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## Experience

### **Process Improvement Intern at Metronet Inc**

September 2019 - December 2020

- . Analyzed process standards and metrics and provide solutions for improvements.
- . Performed data gathering, root cause analysis, and performance trending to develop appropriate process control changes.

- . Informed respective teams on process improvement and re-engineering strategies.
- . Updated and maintained documentation on process improvements and process performance.

### **Engineering Intern at Berry Global Inc**

May 2019 - August 2019

- . Reviewed manufacturing processes used for thermoforming projects and documented steps requiring further explanation from the Quality Assurance department.
- . Designed and detailed mechanical parts and cable assemblies using SolidWorks.
- . Utilized MultiSim and Verilog to develop electrical schematics needed for the annual electrical systems maintenance.
- . Analyzed productivity data and published results on the company's Tableau page biweekly.

### **Undergraduate Data and Research Assistant at University of Southern Indiana**

August 2017 - May 2019

- . Processed data and generated reports to distribute to appropriate team members, including the Provost's office
- . Applied good documentation practices in recording data and management of source documentation.
- . Used data to create models that depict trends in the enrollment and retention rates of students.
- . Utilized various platforms such as Tableau, SPSS, and Qualtrics in data collection and analysis.

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## Education

### **University of Southern Indiana**

Bachelor of Science, Electrical Engineering, December 2020

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## Courses

### **ENGR 491 - Senior Design**

December 2020

A course that provides an opportunity for the synthesis of technical, professional, and

general knowledge for engineering students. Design problems provided by industrial sponsors are studied by small teams of students to develop solutions using engineering design while considering realistic constraints such as economic factors, safety, reliability, aesthetics, ethics, and social impact. Formal written and oral reports to faculty, industrial sponsors, and invited guests are required.

## Projects

- BLE Coffeemaker  
[portfolio.com/r/entry/3019333](https://portfolio.com/r/entry/3019333)

### **ECE 445 - Signals and Systems**

April 2020

Classification, analysis, and design of systems in both the time- and frequency-domains. Continuous-time linear systems: Fourier Series, Fourier Transform, bilateral Laplace Transform. Discrete-time linear systems: difference equations, Discrete-Time Fourier Transform, bilateral z-Transform. Sampling, quantization, and discrete-time processing of continuous-time signals.

## Projects

- Fourier Series and its Applications  
[portfolio.com/r/entry/3020388](https://portfolio.com/r/entry/3020388)
- Discrete-Time Systems/Frequency Response  
[portfolio.com/r/entry/3020382](https://portfolio.com/r/entry/3020382)

### **STAT 355 - Principles of Data Mining**

May 2019

This course addresses data processing, basic concepts, and techniques in data classification, association analysis, cluster analysis, anomaly detection, and statistical testing.

## Projects

- AirBnB trends in the city of New York  
[portfolio.com/r/entry/3020548](https://portfolio.com/r/entry/3020548)

### **ME 364 - Materials Science**

April 2018

The design and analysis of mechanical systems considering theories of static failure,

fatigue, impact loading, and fracture mechanics; with a special emphasis placed on material selection.

## Projects

- Use of AION as window panes for cars and buildings  
[portfolio.com/r/entry/3020374](https://portfolio.com/r/entry/3020374)

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## Accomplishments

- Global Ambassador Scholarship 2016

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## Clubs

### **National Society of Black Engineers**

August 2018 - December 2020

NSBE is an organization aimed at promoting black engineers. Some of its benefits include: Leadership Development – Receive exceptional training at regional conferences, the National Convention, and through your local chapter. You also have the opportunity to serve on a Regional and/or National Executive Board.

Academic support is provided via tutoring and academic achievement programs.

### **Clinton Global Initiative University Campus Representative**

October 2017 - December 2020

The Clinton Global Initiative University (CGI U), the higher education program of the Foundation, activates this next generation through year-round programming that includes access to topic experts and change agents, mentorship networks, financial resources, and community events including the annual CGI U meeting. We are dedicated to supporting students who are committed to take action and address the world's most pressing challenges.

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## Certifications

### **Business Analytics Certificate**

July 2020

3-month certificate from Harvard Business School Online

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## Athletics

### **USI Intramurals**

August 2016 - March 2020

I was part of the USI intramural soccer team.

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## Volunteer Work

### **Volunteer USI**

August 2016 - December 2020

Volunteer USI is an organization of individuals who care about education, the arts, athletics, and the community. Founded in July of 1996, Volunteer USI is coordinated through the Office of Alumni Relations and Volunteer USI and is a University-wide program to recruit, place and recognize volunteers who give their services and talents to benefit USI and the surrounding communities.

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## Portfolium

[Contact Tonderai on Portfolium](#)