

## Related Experience

### Research and Development Engineer

Geometric Biomedical Computing Group | Apr '17 - Sept '17

Constructed deep learning algorithm and classifier using MATLAB and Python in order to classify images pixel-wise with an end goal of building a benign/malignant tumor classifier

Developed additional algorithms and software using MATLAB and Python in order to solve geometry-related computing problems for breast cancer tissue

Designed and build an optical spectrometer using an Arduino and photo resistor to automatically calibrate computer monitor intensity

Installed and maintained multiple Linux OS as well as interfaced with high performance computing cluster

Interfaced with veteran pathologist to solidify biological information

### Application Engineer

IFM Efector | Sept '15 - Mar '16

Consulted via email, phone, and face-to-face for customers on automation of manufacturing processes using IFM's electronic sensors, cameras, and industrial networking devices

Developed and designed hands-on electronic devices for use in employee training, specifically for optical and flow sensors

Conducted extensive periods of in-depth technical evaluation of customer's processes and systems

## Additional Experience

### Intramural Supervisor

Drexel University | Sept '15 - Apr '17

Responsible for all employees and participants on a daily basis

Evaluate employees based on their performance

CPR/AED certified to deal with any and all emergency

### Drexel Co-founder/Vice President

Caleb's Foundation: Pennies from Heaven | Oct '14 - Aug '16

Reached out to companies asking for sponsorship for the annual blind auction

Supported charity headquarters by assisting in running annual auction.

## Education

### Drexel University

Philadelphia, PA

Bachelor of Science in Computer Engineering Sept '14- June '19

### Shanghai Jiao Tong University

Shanghai, China

Author on research paper of patent invention for corona aided catalytic converter Sept '17-Jan '18

## Computer Language Skills

### MATLAB



### C++



### Python



### HTML



### Bash



### Java



## Other Skills

OpenCV, CSS, Spanish, Solidworks, Creo Parametric, AutoCAD, Google SketchUp, Microsoft Office, 3D printing, Arduino, LabVIEW, Multisim, VHDL, Linux, Mac, Windows

## Design Projects

### Website Designer

[www.pages.drexel.edu/~dbj27/](http://www.pages.drexel.edu/~dbj27/) | Sept '17 - Nov '17

Designed, developed, and maintained my personal website using HTML, Java, and CSS

Self-taught HTML, CSS, and Java using codecademy.com and relevant textbooks to create website

### Programmer and Team Member

Student Design Competition | Oct '14 - Mar '15

Designed a remote control robot to carry a maximum load through a multi terrain obstacle course that competed against other top universities in the annual ASME student design

Programmed robot Bluetooth remote control functionality and motors using an Arduino microcontroller

Designed and 3D printed several robot components using MakerBot printers