OPAL SINCLAIR

Biomedical Engineer

o.sinclair@email.com (123) 456-7890 Baltimore, MD

LinkedIn

WORK EXPERIENCE

Biomedical Engineer

Northrop Grumman

2020 - current Baltimore, MD

- Improved structural performance metrics of biomedical components by 27% via finite element analysis (FEA) on ANSYS.
- Completed 2 blast simulations with the help of BLAST, helping the company pick better materials for bio-protective gear in hazardous workspaces.
- Managed laboratory workflows on LabWare LIMS, expediting the average sample processing time by 41 minutes.
- Refined Northrop Grumman's manufacturing process for aerospace biomedical components, which eventually helped them ***mitigate defects by 39%.***

Junior Biomedical Engineer

Baltimore Biologics

2018 - 2020 Baltimore, MD

- Practiced 3D modeling of biomedical devices using SolidWorks, ***lowering the average prototyping time by 6 days***.
- Crafted multiple simulation models in Simulink for testing gene therapy delivery systems, growing their reliability metrics by 21%.
- Used Altium Designer to outline PCB layouts for biomedical devices, cutting down manufacturing costs of the company by $13,797.
- Leveraged LabVIEW to help seniors program and test control systems for biomedical devices in the lab, curtailing system errors by 18%.

Engineering Intern

MedStar Health

2017 - 2018 Baltimore, MD

- Supported the quality assurance team to perform root cause analysis of defective devices, reducing faulty items reported each month by 9%.
- ***Processed and analyzed 155+ medical imaging*** files every week using OsiriX.
- Developed custom R scripts to automate data extraction, shortening the time to retrieve key information by 36 minutes.
- Took part in a company-wide initiative to practice sustainability, helping the team decrease material waste by 14%.

EDUCATION

Bachelor of Science
Biomedical Engineering

Johns Hopkins University

2014 - 2018
Baltimore, MD

SKILLS

- SolidWorks
- ANSYS
- OsiriX
- MATLAB
- Altium Designer
- BLAST
- R
- LabWare LIMS
- LabVIEW
- Simulink