

Ethan B. Drong

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Education **Bachelor of Science, Biomedical Engineering** March 2023
Rose-Hulman Institute of Technology, Terre Haute, IN **3.68 GPA**
Deans List: Fall 2019-Present
Relevant Courses: Regulatory Affairs, Human Centered Design, Production/Operations Management,
Design for Manufacturing, Risk Analysis and Management, Quality Methods

Skills MATLAB, SolidWorks, Minitab, Microsoft PowerPoint, Microsoft Excel, GD&T principles, eQMS
Leadership skills developed holding officer positions in various service and social organizations

Experience **PMC Smart Solutions - Engineering Intern** **Summer 2022**

- Improved production methods by developing assembly fixtures and procedures, reducing cycle time by 50%.
- Developed work instructions per new assembly methods, working closely with the customer
- Lead a production quality build of a 510k medical device, training operators on device assembly
- Controlled confidential documents in an electronic quality management system per ISO 9000
- Designed and controlled market ready labels through working with customers marketing team
- Created metrology measurement fixtures for Gage R&R using SolidWorks
- Fined tuned pneumatic production machinery according to part quality specifications

Rose-Hulman - Research Associate **Summer 2021**

- Developed procedures to evaluate time-frequency information evoked from response potentials in the brain to enhance comprehension tasks
- Created GUIs in MATLAB to capture brain activity as a reaction to negative feedback
- Utilized BCI hardware and software to record subjects' response potentials

Projects **Lakeland Center - Capstone Design** **Fall 2022 - Present**

- Developed a custom biofeedback stirrup over multiple quarters as a team, tracking work through Microsoft Project
- Communicated weekly with the client to address any concerns or updates
- Controlled design documentation in an electronic quality management system
- Performed verification and validation testing on subcomponents of the product
- Lead quarterly technical presentations to design reviewers and project managers

Design For Manufacturing - Pager **Winter 2021**

- Designed an injection molded restaurant pager housing following good draft angle procedures, wall thickness per material, radii, and boss design in SolidWorks
- Confirmed manufacturability of the model through a quote obtained through Protolabs

Activities **Biomedical Engineering Society** **2019-Present**
Delta Sigma Phi **2019-Present**
Sergeant at Arms 2021-Present

- Oversee executive board meetings within the fraternity and maintain the house property

Athletics Director 2019-2021

- Attended quarterly meetings with school staff to setup intramural sports and communicated with active teams on a weekly basis

References Trevor Whittington – Eli Lilly: (317)-910-6845

Richard Nevins – PMC: (317)-796-1189