

Matthew J. Ruge

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EDUCATION

University of Michigan-Ann Arbor, MI

GPA: 3.65/4.0

B.S.E Biomedical Engineering, May 2020

Magna Cum Laude (High Distinction)

Alpha Epsilon Delta Pre-Health Honor Society Member

EXPERIENCE

Abbott Laboratories

May 2020 – Present

Regulatory Affairs Project Manager

July 2021 - Present

- Supported the infant formula brands affected by the FDA consent decree, and 2022 infant formula shortage, through working on redundancy projects, allocations, and expedited approvals for supplemental, non-domestic products.
- Globally managed several nutritional innovation projects (\$155M) through identifying market fit, finding third party manufacturing, balancing cross functional design criteria, and justifying project theses to leadership teams.
- Supported two organic certification renewal audits by providing reference documentation and explaining processes to the auditor.
- Improved resource management tools by creating a macro-enabled dashboard that automatically consolidated data enabling additional visibility to the project pipeline, and a more wholistic picture of the resources each project demands.
- Review and approve marketing material for Abbott's U.S. nutrition portfolio used on the packaging or in advertisements.

Planning and Procurement Specialist

August 2020- July 2021

- Direct the supply chain of a 19-component product in the effort to produce 35 million rapid COVID-19 tests (BinaxNOW) a month for Abbot's vertical startup, Project Apollo.
- Constructed an inventory tracking file that has been integrated across all Project Apollo sites within Abbott using Excel Macros.
- Schedule the product release forecast that has led to over \$750 million in government and direct to consumer sales for Abbott over the course of 2 months.
- Planned warehouse infrastructure, inventory tracking procedures, and material flux of approximately 18.1 million components daily.
- Write manufacturing orders that instruct each of our production lines the material they have been issued, and the number of COVID tests they are expected to produce.
- Manage a diverse, educated team in order to coordinate an inventory of over 294 million units within a 90% confidence interval while vetting and integrating their ideas for improvement.

From, Matt (frommatt.com)

May 2020 – Present

- Built a website from scratch, began publishing newsletters, and have grown my audience 80% month over month since inception.
- Broker advertisements with local businesses to monetize my website and increase their online presence and traffic.
- Write feature articles for major media brands, integrating to their systems, style of voice, and candor.

Nanotechnology Institute for Medicine & Biological Science

January 2018 – April 2020

Undergraduate Research Assistant

- Investigated the synergetic effects of nanoemulsion and the current influenza vaccine in an attempt to improve cross strain immunity
- Clearly present the results from microneutralizations, ELISA, and transfections to justify predictions using PRISM and excel software.
- Conducted preliminary studies investigating whether nanoemulsion can be beneficial in treating the COVID-19 outbreak.

Denso Manufacturing Inc., MI

Summers 2017 & 2018

Research & Development Engineering Intern

- Cut 30 seconds from a production line leading to a 31% increase in production, and \$200,000 annual cost savings through 3D printing, lean manufacturing, and process ergonomics.
- Programmed an ABB YuMI Robot to determine whether parts fit design specifications by comparing them to 3D CAD files.
- Awarded Top 10 Presentation out of 86 interns by company executives for two consecutive summers.

M-Heal, University of Michigan

September 2016 – March 2020

Data Acquisition and Mechanical Lead

- Researched wavelength frequencies that can be used to aid a pneumonia diagnosis and prototyped product designs that adhere to UNICEF standard using breadboards, microprocessors, MatLab, and piezoelectric microphones.
- Wrote and received IRB approval through the University of Michigan Medical School to conduct patient studies with a working prototype.

PUBLICATIONS

- Enhancing influenza vaccine efficacy and breadth through combined nanoemulsion and RIG-1 agonist adjuvant
- Shielded α -Nucleophile Nanoreactor for Topical Decontamination of Reactive Organophosphate