

Megan G. White

4809 Lorwood Dr. Smiths Creek, MI 48074

megwhite@umich.edu ▪ (810) 357-1331

www.linkedin.com/in/meganwhitebme ▪ www.megwhite6.wix.com/eportfolio

Education

University of Michigan, Ann Arbor, MI

M.S.E May 2017 **Major:** Biomedical Engineering

Concentration: Medical Product Development

B.S.E May 2016 **Major:** Biomedical Engineering

Concentration: Biochemical

Minor: Music

GPA: 3.61/4.00

Work Experience

Lab Manager, Research Intern, Laboratory of Cellular and Molecular Systems

May 2015 – Sept. 2016

- Implement cell culture and microscopy techniques to observe cell migration, polarization, signaling via protein expression.
- Organize and purchase lab supplies, and maintain stable cell line cultures and stocks.

Custodial Staff, Dr. Percy McDonald, MD

May 2013 -- Present

- Optimize sanitation and organization of patient environment by performing assigned tasks with a partner.

Project Experience

Facial Treatment for Atopic Dermatitis in Infants

Sept. 2016 – Present

Improving Pinching in Multiple Sclerosis

Jan. – Apr. 2016

- Designed and fabricated prototype to provide sensory feedback to optimize pinch grip in multiple sclerosis patients.
- Developed Arduino coding for system to provide accurate feedback for various levels of force generation.

Myoelectric Control of Common Devices

Sept. – Dec. 2015

- Designed conditioning circuit and LabVIEW interface to control operation of simulated light, fan, and thermostat by EMG.

Tensile Strength of Heat-Treated Human Hair

Mar. – April 2015

- Designed a material-testing assay to observe changes in hair tensile strength when heat-treated. Presented poster.

SynCardia Total Artificial Heart

Sept. – Dec. 2012

- Researched history, material properties, operation, and potential flaws of device. Compiled results into award-winning report.

Leadership and Involvement

Co-Director, Pilgrim Lutheran Church Vacation Bible School

May 2012 – Present

- Organize volunteer and participant sign-ups, item donations, and daily schedules.
- Purchase required materials, publicize event, and help with set construction.

Worship Musician, Lord of Light Lutheran Church, Zion Lutheran Church

2012 – Present

- Perform vocal and instrumental music to enhance worship experience weekly while improving musicianship skills.

Corporate Information Sessions Officer, Society of Women Engineers

Aug. 2015 – Apr. 2016

- Recruit volunteers for SWE Corporate Information Sessions via Google Forms and Spreadsheets.
- Maintain communication with students through up-to-date announcements and email correspondence.

Peer Minister, Webmaster, Intersection LCM

2013 – 2016

- Plan events, interact with UM community, and design and maintain user-friendly, interactive website to increase involvement.

Technical Skills

Arduino, Western Blot, PCR, ImageJ, CellTracker, LabVIEW, Microsoft Office, cell culture, microscopy, data analysis, technical writing

Awards and Honors

Stilettoes to Steel Toes Essay Contest Winner: University of Michigan – Awarded by Schlumberger

Society of Women Engineers Schlumberger Scholarship – Awarded by SWE at the University of Michigan

Yoder Scholarship – Awarded by Lord of Light Lutheran Church, Ann Arbor MI

Landes Prize for Technical Communication Honorable Mention – Awarded by University of Michigan

Publications

Ostrowski AK, Bette N, **White MG**, Chen E, Cockrum J, Gosbee J, Schmedlen R. Multiple Sclerosis Sensory Feedback Device to Improve Pinch Grip. Poster presented at Biomedical Engineering Society Annual Meeting; 2016 Oct 5-8; Minneapolis, MN.

Rosselli-Murai LK, Yates JA, **White M**, Prisby J, Tan X, Wu ZF, Merajver S, Liu AP. The tumor suppressor PTEN: linking endocytosis to signaling in breast cancer cells. Poster presented at American Society for Cell Biology Annual Meeting; 2015 Dec 12-16; San Diego, CA.