

# Kyle S. Meyers

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## Biomedical Engineering Qualifications

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- Adept in CAD (PTC Creo, Autodesk Inventor, Vectorworks), MATLAB, ImageJ, PowerLab, Wordpress.
- Diverse leadership experience as residential advisor and teaching assistant.
- Design engineering experience utilizing voice of customer techniques and iterative prototyping through design projects.
- Communication, interpersonal, and organizational skills practiced through team projects and employment opportunities.
- Research skills utilizing scientific journals and electronic databases, enhanced through completion of academic projects.

## Education and Honors

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### University of Rochester

#### **Master of Science in Biomedical Engineering**

**Expected: May 2017**

Concentration: Center for Medical Technology and Innovation (CMTI)

- One year intensive master's program in biomedical engineering
- Experience gathering unmet clinical needs and commercializing into medical device
- Design with complexities of FDA regulation, intellectual property, and quality systems in mind.

#### **Bachelor of Science in Biomedical Engineering**

**May 2016**

GPA: 3.44/4.0

Concentration: Bio-systems & Bio-signals

Humanities Concentration: Theatre Production and Performance

- New York State Excellence Scholarship & Dean's Scholarship
- Member of Biomedical Engineering Society

## Biomedical Engineering Courses and Projects

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Biomedical Sensors, Circuits, & Instrumentation • Biomedical Ultrasound • Biosystems and Circuits • Computations and Statistics for BME • Physiological Control Systems • Biomedical Systems, Signals, and Imaging • Electromagnetic Waves • Discrete-Time Signal Processing • MatLab for BME • CAD Solid Modeling • Introduction to Solid Mechanics • Biomechanics • Bio-Materials • Human Anatomy & Physiology • Neural Foundations of Behavior • Quantitative Physiology • BME Design Seminar • BME Senior Design

**ECG Lead Wire Improvement for CURBELL Medical Inc.:** Designed an improved patient end connection for ECG lead wires focusing primarily on addressing retention, cleaning, and cost. The product was iteratively prototyped as a team of four as senior capstone; my largest contribution was three dimensional modeling, prototyping (machining, 3D Print), and documenting final design.

**Three Dimensional CT Scan Processing:** Computational and statistical techniques were applied in the processing and analysis of a 3D CT scan of a mouse femur. MATLAB visualization techniques were explored and filters were designed to achieve comparable and measurable visuals of the 3D CT scan data.

**Blood Oximeter:** Application of circuit theory with a biological background of blood oxygenation, a pulse oximeter was designed, modeled, and prototyped. Light absorption theory and research regarding wavelengths of blood in various states of oxygenation were used to construct a device that monitored blood oxygenation and further measured the pulse rate of a patient.

## Employment

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#### **Audio Visual Engineer: University of Rochester**

**Fall 2014 – Present**

Develop lessons and teach the sound laboratory for the classes offered by the theatre department. Serve as a liaison between the professional sound/video designers and the department. Install and maintain audio/video systems for each production. Responsible for inventory, maintenance, and source new equipment.

#### **Producer/Technical Director: Victoria Buda's Academy of Theatrical Arts**

**Fall 2008 – Present**

Act as lead designer and safety director in all productions. Lead and train teams of technicians and collaborate with design team. Work closely with Executive Producer and Artistic Director to decide format of season and manage productions.

#### **Resident Advisor: University of Rochester**

**Fall 2014 – Spring 2016**

Act as leadership and resource person for a floor of first-year students. Trained in counseling, advising, programming, mediation, and interpreting policies and procedures. Involves formal reporting, staff meetings, and interviewing/hiring new staff members.

#### **Server/Bartender: The Lakeview Restaurant**

**Spring 2011 – Summer 2016**

Chosen to train new staff on multiple occasions, implement marketing campaigns, manage inventory, and program POS system.