BRIAN ALDRIMK

baldrimk1@gmail.com 208-995-9876 1465 C St. Unit 3221, San Diego, CA

EDUCATION

University of Idaho May 2018

B.S in Mechanical Engineering, *cum laude* GPA: 3.8

EXPERIENCE

Division Officer February 2019 – Present

USS SOMERSET LPD 25, United States Navy, San Diego, CA

- Combat Information Center Officer, responsible for OI division personnel, training, equipment, and maintenance for 14 Operation Specialists.
- Watch Stander, assist the ship in successfully completing multiple tasking and exercises to include Pacific sentry, arctic expeditionary capabilities exercise, and San Francisco Fleet week.

Research Assistant January 2017 – May 2018

Neurophysiological Imaging and Modeling laboratory, Moscow, ID

MRI Compatible Cerebrospinal Fluid Pump

- Design build and test internal mechanism for oscillatory flow pump.
- Create preliminary design prototype using 3D printer.
- Create Solidwork model to include drawings of parts and assemblies.
- Project management; document meeting minutes and project scheduling.

Subject Specific Physiologic Simulator of intracranial fluid dynamics SURF Award 2017

- Process MRI images to create accurate CAD model of intracranial cerebrospinal fluid system

Assessment of optic nerve tortuosity in long-duration space flight astronauts

- Operator for Quantifying optic nerve and optic nerve sheath 3D geometry

SKILLS

Leadership, personnel management, AutoCAD, SolidWorks, CATIA V5, MATLAB, LabVIEW, machining operations (manual lathe and mill), 3D printing, HTML, CSS.

PUBLISHED ABSTRACTS AND PRESENTATIONS

1. Marsden E, Aldrimk B, Lunstrum A, Conley G, Sass LR, Martin BA, "Oscillatory Flow Pump for Simulation of Cerebrospinal Fluid Flow," University of Idaho Undergraduate Research Symposium (Moscow, ID, 4/30, 2018).
2. Rohr JJ, SASS AM, Sater S, Aldrimk B, Stenger M, Macias B, Ethier CR, Sargsyan A, Martin BA, " Inter-operator Reliability Assessment of Optic Nerve Tortuosity in Long- duration space flight astronauts," 33rd Annual meeting of the American Society for Gravitational and Space Research (Seattle, WA, 10/25-28/2017).
3. Aldrimk B, Conley G, Sass LR, Martin BA," 3D printed Subject-Specific MRI Compatible Physiologic Simulator of Intracranial Fluid Dynamics," Idaho Conference on Undergraduate Research (Boise,ID, 7/26-27/2017).
4. Sater S, Sass A, Aldrimk B, Rohr J, Stenger M, Macias B, Martin BA," Reliability Assessment of Optic Nerve Trajectory in Long-duration Space Flight Astronauts," University of Idaho, Undergraduate Student Research Symposium (Moscow, ID, 4/24, 2017).