

Lane E. Schultz

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Education

Fort Lewis College (FLC)

BACHELORS OF SCIENCE IN ENGINEERING

- Student Marshal
- Concentration: Electro/Mechanical
- Minor: Mathematics
- Cumulative GPA: 3.99
- Fundamentals of Engineering (FE) Exam: PASSED

Durango, CO

Aug. 2013 - Dec. 2017

Experience

Summer Undergraduate Research Experience (SURE) 2017, University of Wisconsin-Madison

WROTE AN IMAGE GENERATION TOOL WITH PYTHON AND BASH SCRIPTS

- **Presented:** "Tools for Standard Visualization of DAGMC Radiation Transport Results"
- Defined standard, automated image views of data sets
- Implemented command line tool execution

Madison, WI

May. 2017 - Aug. 2017

Capstone Design Project - Exotic Propulsion Test Stand, FLC

DESIGNED AND DEVELOPED A 10 μN TORSIONAL TEST STAND

- Implemented electrostatic displacement mechanism
- Modeled system transient response
- Developed low cost test stand

Durango, CO

Sep. 2016 - Apr. 2017

Summer Undergraduate Research Fellowship (SURF) 2016, Purdue University

OPERATED AN X-RAY IMAGING SYSTEM FOR TWO DIMENSIONAL ANALYSIS OF SPRAYS

- **Presented:** "Optimization of a High-Speed X-Ray Imaging System for Studying Sprays"
- Operated pressure vessels, X-ray tube sources, and high-speed cameras
- Determined contrast and attenuation of sprays

West Lafayette, IN

May. 2016 - Aug. 2016

Design Project - Water Quality Survey Device, FLC

DESIGNED AND DEVELOPED A WATER QUALITY MEASURING DEVICE

- **Published OCEANS 16:** "Development of a Portable Water Quality Sensor for River Monitoring from Small Rafts"
- Measured temperature, ORP, pH, time, and GPS location
- Designed interchangeable sensor package

Durango, CO

Dec. 2016 - Apr. 2016

Computer Software

- SCRIPTING: PYTHON AND MATLAB
- DRAWING: AUTOCAD
- DOCUMENTATION: LATEX
- OS: LINUX

Teaching Assistant and Tutor

- THERMAL AND FLUID SYSTEMS LABORATORY
- ENGINEERING FUNDAMENTALS II (MATLAB)

Societies, Conferences, and Awards

Fort Lewis College

Sigma Pi Sigma (Physics Honor Society)

Durango, CO

Fort Lewis College

Order of the Engineer

Durango, CO

University of Wisconsin-Madison

Opportunities in Engineering Conference

Madison, WI

Fort Lewis College

Deans' Council Freshman 4.0 Award and Certificate

Durango, CO

Fort Lewis College

Freshman Chemistry Recognition Award

Durango, CO

Manzano

Renaissance Plaque

Albuquerque, NM

Menard

Chickasaw Honor Club Outstanding Academic Achievement Award

Menard, TX

Menard

Patrick S. Gilmore Band Award

Menard, TX

Languages

Bilingual

Fluent in Spanish and English