CHARLES RAMBO

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EDUCATION

Master of Science | *Photonics*	Aug. 2019 – May 2021
University of Eastern Finland	Joensuu, Finland
Bachelor of Arts | *Major: Physics, Minor: Education*	Aug. 2016 – May 2018
Austin College	Sherman, TX
Associate of Liberal Sciences	Aug. 2015 – May 2016
North Lake College	Irving, TX

WORK EXPERIENCE

Integration Engineering Intern   June 2018 – August 2019
Finisar Corp.   Sherman, TX
- Worked in ISO 4 cleanroom developing applications to improve efficiency and creating specs
- Employed metrology and microscopy for failure analysis and developing process for wet etching
- Member of Emergency Response Team

Laboratory Assistant   January 2016 – July 2016
North Lake College   Irving, TX
- Inventoried and maintained Physics Department lab equipment
- Physics tutoring

Assistant Manager   December 2006 – August 2015
Sun & Ski Sports   Austin, TX
- Led a team of 20+ employees
- Ran social media, as well as all grassroots marketing

PROJECTS AND RESEARCH

Surface Plasmon Propagation in the Kretschmann-Raether Configuration \| *Python*   Fall 2020
University of Eastern Finland

Simulation of Vector Beams Through High Numerical Aperture Lens \| *Python*   Fall 2020
University of Eastern Finland

Characterization of the Flame-S Spectrometer for Spectral Imaging Research   Spring 2020
University of Eastern Finland

Free Form Lens Systems for 3D Printing \| *MATLAB, OpTaliX*   Spring 2019
University of Eastern Finland

Procedures for Plating and Wet-Etching in III-V Semiconductor Devices   Summer 2019
Finisar Corp.

Photo-Filter Characterization for Photometric Identification of Be Stars   Fall 2017
Austin College

Improved Calibrating Equations for Volumetric Soil Moisture Measurement   Spring 2017
Austin College

Product Design, and Manufacturing Using 3D Printing \| *Autodesk 123D*   Fall 2016
Austin College

Conferences and Presentations

Photometric Filter Fidelity and Use for Be Star Identification November 2017
Austin College Physics Research Seminar

Reflectometry for Volumetric Soil Moisture Measurement May 2017
Austin College Atmospheric Physics Fair

Design and Manufacturing of Products using 3D Printing April 2017
Austin College Student Scholarship Conference

Honors and Awards

Dean's List Fall 2017
Recognition for to 20% of students in academics at Austin College

Noyce STEM Education Leadership Scholarship June 2017
Merit based grant for students pursuing education in STEM fields

Stephens Scholarship May 2017
Merit based scholarship to support international study experiences within Austin College

John D . Mosely Scholarship July 2016
Merit based scholarship requiring Austin College alumnus nomination

Presidents List Spring 2016
Overall GPA above 3.8 at Austin College

Eagle Scout April 2006
Highest level of achievement within the Boy Scouts of America

Teaching Experience

High School Physics (11 Weeks Teaching/Observing) Fall 2017
Denison High School Denison, TX

High School Calculus (11 Weeks Teaching/Observing) Fall 2017
Denison High School Denison, TX

High School Geometry (9 Weeks Teaching/Observing) Spring 2016
Sherman High School Sherman, TX

Community Involvement

Austin College Community Tutors Fall 2017 – Fall 2018
Free tutoring for local students in science and mathematics Sherman, TX

River Legacy Nature Center September 2015 – August 2016
Provided assistance for various youth science education programs Arlington, TX

Back on My Feet Run Club April 2014 – August 2015
Helping to reestablish homeless persons in the community Austin, TX

Skills

Languages: English (Native), Spanish (B1), Finnish (A1)
Programming: Python (NumPy, SciPy, Matplotlib, Pandas), MATLAB, Mathematica, Java
Document Creation: Microsoft Office Suite, LaTex, Markdown