



CHARLES RAMBO

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EDUCATION

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

WORK EXPERIENCE

Integration Engineering Intern Finisar Corp.	June 2018 – August 2019 Sherman, TX
<ul style="list-style-type: none">• 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 North Lake College	January 2016 – July 2016 Irving, TX
<ul style="list-style-type: none">• Inventoried and maintained Physics Department lab equipment• Physics tutoring	
Assistant Manager Sun & Ski Sports	December 2006 – August 2015 Austin, TX
<ul style="list-style-type: none">• 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 <i>Python</i> University of Eastern Finland	Fall 2020
Simulation of Vector Beams Through High Numerical Aperture Lens <i>Python</i> University of Eastern Finland	Fall 2020
Characterization of the Flame-S Spectrometer for Spectral Imaging Research University of Eastern Finland	Spring 2020
Free Form Lens Systems for 3D Printing <i>MATLAB, OpTaliX</i> University of Eastern Finland	Spring 2019
Procedures for Plating and Wet-Etching in III-V Semiconductor Devices Finisar Corp.	Summer 2019
Photo-Filter Characterization for Photometric Identification of Be Stars Austin College	Fall 2017
Improved Calibrating Equations for Volumetric Soil Moisture Measurement Austin College	Spring 2017
Product Design, and Manufacturing Using 3D Printing <i>Autodesk 123D</i> Austin College	Fall 2016

CONFERENCES AND PRESENTATIONS

Photometric Filter Fidelity and Use for Be Star Identification Austin College Physics Research Seminar	November 2017
Reflectometry for Volumetric Soil Moisture Measurement Austin College Atmospheric Physics Fair	May 2017
Design and Manufacturing of Products using 3D Printing Austin College Student Scholarship Conference	April 2017

HONORS AND AWARDS

Dean's List Recognition for to 20% of students in academics at Austin College	Fall 2017
Noyce STEM Education Leadership Scholarship Merit based grant for students pursuing education in STEM fields	June 2017
Stephens Scholarship Merit based scholarship to support international study experiences within Austin College	May 2017
John D . Mosely Scholarship Merit based scholarship requiring Austin College alumnus nomination	July 2016
Presidents List Overall GPA above 3.8 at Austin College	Spring 2016
Eagle Scout Highest level of achievement within the Boy Scouts of America	April 2006

TEACHING EXPERIENCE

High School Physics (11 Weeks Teaching/Observing) Denison High School	Fall 2017 Denison, TX
High School Calculus (11 Weeks Teaching/Observing) Denison High School	Fall 2017 Denison, TX
High School Geometry (9 Weeks Teaching/Observing) Sherman High School	Spring 2016 Sherman, TX

COMMUNITY INVOLVEMENT

Austin College Community Tutors Free tutoring for local students in science and mathematics	Fall 2017 – Fall 2018 Sherman, TX
River Legacy Nature Center Provided assistance for various youth science education programs	September 2015 – August 2016 Arlington, TX
Back on My Feet Run Club Helping to reestablish homeless persons in the community	April 2014 – August 2015 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