

# CHARLES RAMBO

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## EDUCATION

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

## WORK EXPERIENCE

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|---|---|
| <b>Integration Engineering Intern</b><br>Finisar Corp. <ul style="list-style-type: none"><li>• Worked in ISO 4 cleanroom developing applications to improve efficiency and creating specs</li><li>• Employed metrology and microscopy for failure analysis and developing process for wet etching</li><li>• Member of Emergency Response Team</li></ul> | June 2018 – August 2019<br>Sherman, TX    |
| <b>Laboratory Assistant</b><br>North Lake College <ul style="list-style-type: none"><li>• Inventoried and maintained Physics Department lab equipment</li><li>• Physics tutoring</li></ul>  | January 2016 – July 2016<br>Irving, TX    |
| <b>Assistant Manager</b><br>Sun & Ski Sports <ul style="list-style-type: none"><li>• Led a team of 20+ employees</li><li>• Ran social media, as well as all grassroots marketing</li></ul>  | December 2006 – August 2015<br>Austin, TX |

## PROJECTS AND RESEARCH

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|--|-------------|
| <b>Surface Plasmon Propagation in the Kretschmann-Raether Configuration</b>   <i>Python</i><br>University of Eastern Finland | Fall 2020   |
| <b>Simulation of Vector Beams Through High Numerical Aperture Lens</b>   <i>Python</i><br>University of Eastern Finland      | Fall 2020   |
| <b>Characterization of the Flame-S Spectrometer for Spectral Imaging Research</b><br>University of Eastern Finland           | Spring 2020 |
| <b>Free Form Lens Systems for 3D Printing</b>   <i>MATLAB, OpTaliX</i><br>University of Eastern Finland                      | Spring 2019 |
| <b>Procedures for Plating and Wet-Etching in III-V Semiconductor Devices</b><br>Finisar Corp.                                | Summer 2019 |
| <b>Photo-Filter Characterization for Photometric Identification of Be Stars</b><br>Austin College                            | Fall 2017   |
| <b>Improved Calibrating Equations for Volumetric Soil Moisture Measurement</b><br>Austin College                             | Spring 2017 |
| <b>Product Design, and Manufacturing Using 3D Printing</b>   <i>Autodesk 123D</i><br>Austin College                          | Fall 2016   |

## CONFERENCES AND PRESENTATIONS

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

HONORS AND AWARDS

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

TEACHING EXPERIENCE

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|--|----------------------------|
| <b>High School Physics (11 Weeks Teaching/Observing)</b><br>Denison High School  | Fall 2017<br>Denison, TX   |
| <b>High School Calculus (11 Weeks Teaching/Observing)</b><br>Denison High School | Fall 2017<br>Denison, TX   |
| <b>High School Geometry (9 Weeks Teaching/Observing)</b><br>Sherman High School  | Spring 2016<br>Sherman, TX |

COMMUNITY INVOLVEMENT

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

SKILLS

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| <b>Languages:</b> English (Native), Spanish (B1), Finnish (A1)                           |
| <b>Programming:</b> Python (NumPy, SciPy, Matplotlib, Pandas), MATLAB, Mathematica, Java |
| <b>Document Creation:</b> Microsoft Office Suite, LaTeX, Markdown                        |