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