



ELENA CECCARELLI

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PROFILO

Master of Science | *Photonics*

University of Eastern Finland

Aug. 2019 – May 2021

Joensuu, Finland

Bachelor of Arts | *Major: Physics, Minor: Education*

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

- 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

- Inventoried and maintained Physics Department lab equipment
- Physics tutoring

Assistant Manager

Sun & Ski Sports

December 2006 – August 2015

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*

University of Eastern Finland

Fall 2020

Simulation of Vector Beams Through High Numerical Aperture Lens | *Python*

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 | *MATLAB, OpTaliX*

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