

Ahmad Azim

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Education

University of Central Florida, Orlando, FL Expected Graduation Date: May 2017
Bachelor of Science in Photonic Science & Engineering GPA: 3.48/4.00
Thesis: "Coherent Beam Combining of Ultrashort Laser Pulses"
Minors: Mathematics

Experience

Townes Laser Institute, Laser Plasma Laboratory – Undergraduate Research Assistant Oct. 2014 – Present
• Research and development of ultrashort pulse solid-state lasers utilizing coherent combination techniques
• Design and assembly of high-energy flashlamp-pumped Nd:YAG picosecond laser for OPCPA pumping

MIT Lincoln Laboratory – Laser Technology & Applications – Summer Intern Jun. 2016 – Aug. 2016
• Beam combining and fiber coupling of high-power diode lasers

UCF/Lockheed Martin CWEP – Mechanical Engineering Intern Feb. 2015 – Aug. 2015
• Applied laser spectroscopy, ellipsometry and irradiation of optical metamaterials
• Data analysis in MATLAB and software development/interfacing through LabVIEW

Publications

B. Webb, A. Azim, N. Bodnar, M. Chini, L. Shah, and M. Richardson, "Divided-pulse amplification to the joule level," *Optics Letters*, vol. 41, no. 13, p. 3106, Jul. 2016.

A. Azim, B. Webb, N. Bodnar, M. Chini, L. Shah, and M. Richardson, "Hybrid spatiotemporal coherent pulse addition of a picosecond flashlamp-pumped Nd:YAG laser," *Proceedings of Advanced Solid State Lasers 2016*

Technical Skills

Optics – Raman and FTIR Spectroscopy, Interferometry, Ellipsometry, Microscopy, Phase-Locking, Beam Combining
Hardware – Microcontrollers, Oscilloscopes, Oscillators, Resonators, Amplifiers, Chillers, Streak Cameras
Software – MATLAB, LabVIEW, Multisim, Origin, Microsoft EXCEL, PowerPoint and Word
Programming Languages: Proficient in C/C++, familiar with Python and JavaScript
Lasers – Ti:Sapphire few-cycle oscillators, Ytterbium-doped fibers, gain-switched diode lasers, crystal-rod amplifiers

Leadership

SOS (Society of Optics Students) Apr. 2015 – Present
Secretary
• Founding member of the organization, chair of build projects and keeper of all documents
• Organizer of general and officer meetings, meeting minutes, itineraries and head contact for the society

Theta Tau Professional Engineering Fraternity Nov. 2014 – Present
Social Chair
• Organized and hosted social and tailgating events for members and guests of the fraternity
Professional Development Chair
• Facilitated the organization of seminars and discussion panels related to professional engineering

CAOS (CREOL Association of Optics Students) Aug. 2014 – Sep. 2015
Secretary
• Took meeting minutes and redistribute information to all officers after each meeting
• Regulated a snack shop, organized social events and host technical demonstrations

Extracurricular Activities & Societies

<i>Burnett Honors College</i> – Honors in the Major Prospective Student	Apr. 2015 – Present
<i>American Physical Society</i> – Active member	Mar. 2015 – Present
<i>Phi Eta Sigma National Honor Society</i> – Active member	Nov. 2014 – Present
<i>Optical Society of America</i> – Student member	Apr. 2014 – Present
<i>Institute of Electrical and Electronic Engineers</i> – Student Member	Apr. 2014 – Present

Awards & Honors

Deans List College of Optics & Photonics - Spring 2015, Fall 2015, Spring 2016
Ronald McNair Scholar – Spring 2016
CAMP-YES Scholar – Spring 2016