

Year	Student		Thesis Title
2019	Brinker	Nathan	Arduino Controlled Can Dispenser
2019	Crossman	Bryan	Angular Dependence of Third-Order Optical Nonlinearity in Indium Tin Oxide
2019	Kamish	Bradey	Power Output versus Blade Numbers for Small-scale Vertical Axis Wind Turbine
2019	Meger	Ryan	Electromagnetic Rail Gun
2019	Miralles	Jose	Effective Harnessing of Vibrational Energy via Magnetic Induction
2019	Olson	Tyler	Aerodynamic Properties of Various Projectiles
2019	Schmelzer	Noah	Magnetohydrodynamic Salt Water Drive
2019	Stevens	Max	The Science of Exoplanet Transits
2019	Thwaites	Jessie	Modeling Solitary Waves in the Earth's Magnetosphere
2019	Wetzel	Sam	Reducing Heat in an Acoustic Levitation System
2019	Zimprich	Colin	Alpha Particle Energy Loss
2018	Corrigan	Melissa	Period-Color-Luminosity Relationship in Contact Binaries Using WISE
2018	Delmont	Gino	Direct vs. Diffuse Sunlight in Solar Panel Energy Generation
2018	Geiser	Christina	Effects of Different Reflector Materials on Acoustic Levitation
2018	Hao	Yu	Variable Star Light Curve's Period vs. Phased-Roughness
2018	Hoyt	Andy	Solar Power outputs from Direct vs. Indirect Sunlight
2018	Langley	Marcus	Development of Android App for Tracking Rocket Flight Statistics
2018	Laundergan	Jacob	An Unsophisticated Test for a Connection Between Optical and γ -Ray Variability in Blazars
2018	McGuire	Marty	All Sky Camera
2018	Meyer	Tyler	Portable Hydroelectric Generator
2018	Moraczewski	Leo	Seeing an Exoplanet
2018	Nelmark	Claire	Building and Optimizing a Raman Spectroscopy System for Chemical Analysis
2018	Nelson	Michael	Farnsworth-Hirsch Fusor
2018	Peck	Mitch	Time Comparison of Block Starts
2018	Pennings	Louis	Multistage Coilgun
2018	Pfahning	Steven	The Physics of Rowing
2018	Reyes	Eric	Supercontinuum Generation
2018	Skiba	Robbie	Femtosecond Measurements of Lithium Niobate
2018	Stiller	Matt	Dynamic Reflectivity and Transmissivity of Black Phosphorus Flakes
2017	Batkiewicz	Devin	SJU Solar Farm Efficiency
2017	Burke	James	Modeling and Measurement of Coil Magnetic Fields
2017	Camber	Chris	Creating a High Voltage AC Piezo Driver for Bubble Sonoluminescence

2017	Dunbar	Reed	Plasma Physics: Investigating Paschen's Curve
2017	Gunasekera	Chamani	Characteristics of Solitary Waves Dependent on Location and Type of Magnetopause Discontinuity
2017	Gust	Alek	Position Sensing Using Magnetic Sensors
2017	Hagen	Parker	Dynamic Reflectivity from Non-equilibrium Electron Heating
2017	Harvot	Michael	Generating Electricity from Water Waves
2017	Kosen	Joseph	Creating a High Voltage AC Piezo Driver for Acoustic Levitation
2017	LaPanta	AJ	Laser Induced Contamination on Coated Surfaces from a Pulsed Laser
2016	Bierman	Stephanie	Swimming Flip Turns
2016	Daniel	Grant	Thermal Stabilization and Pulse Compression of a Ti:sapphire Laser
2016	Gag	Kyle	Study on near-field patterns of Yagi-Uda antennas
2016	Gross	Cathleen	Designing an Interferometer to Evaluate Laser Interference
2016	Hanson	Gabriel	Synthesis and analysis of Tin-based Perovskite Solar Cells
2016	Jendro	Amanda	Visible Vibrations of an Oboe Reed
2016	Lusty	Ariel	Pulse and Orbital Periods of ASAS182162
2016	Nault-Maurer	Benjamin	Retrieval of Atmospheric Aerosol Size Distributions Using Stochastic Particle Swarm Optimization
2016	Thiegs	Caleb	Stability in Long-Period Mira Variable Stars
2016	Wheeler	Alex	Thermoacoustic Refrigeration
2015	Marsnik	Jacob	Electric Guitar Pickups - Does the Magnetic Material Affect the Sound?
2015	Minea	Zachary	Meteor Radiants
2015	Varga	Raul	All Sky Camera Analysis of Meteor Magnitude Distributions
2015	Hoppert	Joseph	Photometric Extraction of the Pulse and Orbital Periods of ASAS182612: Eclipsing Binary with a Type II Cepheid Component
2015	Linehan	Bryan	Simulating Neutrino Oscillation: Looking for Sterile Neutrinos
2015	Schroeder	Erynn	An Aerodynamic Simulation of Disc Flight
2015	Hedberg	Garrett	Acoustic Levitation: Optimizing Reflector and Circuit Designs for Levitation
2015	Kopp	Kaela	A Theoretical and Experimental Analysis of Compton Scattering using a Gamma Spectacular
2015	Maher	Nicholas	Supercontinuum Produced by Ultrashort Pulses from Ti:sapphire Laser and Nonlinear Photonic Crystal Fiber
2015	Loso	Luke	Infrared Distinction of Variable Stars
2015	Burns	Vincent	Matching Periods to Variable Stars
2015	Jacobson	Kathryn	Measuring Biological Cell Damage due to Ionizing Radiation
2015	Rollag	Kelsey	Construction and Performance Testing of an Electricity-Producing Wind Turbine
2014	Anderson	Tyler J.	Analyzing Vacuum Tube and Solid-State Amplifiers

2014	Brancale	Alexandra	Frequency-Resolved-Optical-Gating Measurement of Laser Pulses
2014	Foley	Patrick	Aerosol Optical Depth Calculations near Collegeville, MN
2014	Katz	Stephen	Mode-Locked Carbon Nanotube Fiber Lasers
2014	Liu	Yiqi	Holography with a Spatial Light Modulator
2014	Neddermeyer	James	Generating Bessel Beams using Axicons
2014	Schmit	Daniel	The CSB/SJU All-Sky Camera
2014	Thompson	Matthew	Mode-Locked Ytterbium Fiber Laser
2013	Benson	Joseph J.	Eclipsing Ellipsoidal Variable Binary Star with Type II Cepheid
2013	Hemstad	Jacob R.	Modeling a Non-Uniform Memory Access Environment for Optimizing Conjugate Gradient Performance
2013	Kirchner	Richard J.	Differential Modeling and Efficiency Testing of the Saint John's University Co-generation Power Plant
2013	Kuebelbeck	Stephen	Laser's Wavelength Measurement Through the Use of a Dual-Path Michelson Interferometer
2013	Moore	Thomas M.	Investigating Correlation Between Gamma-ray Variability and Optical Luminosity in Gamma-Ray Bursts
2013	Reinsvold	Allison C.	Roll and Pitch Corrections for a Shipboard Anemometer
2013	Xu	Runbo	Aerosol Optical Depth and Aerosol Number Density Above Saint John's University
2013	Yost	Andrew	Calibration of linearity comparing piezo voltage and laser frequency change using the hyperfine structure of rubidium-87
2012	Anderson	Kevin	The Robotic Xylophone
2012	DeSutter	John	Nonlinear light scattering from transparent spheres
2012	Evich	Alexander	Nightly Calibration of Meteor Events Using Observed Stars
2012	Gao	Chi	Measuring Atmospheric Water Vapor by a Spectrometer
2012	Philips	Chris	Construction and Calibration of An Extended Cavity Diode Laser
2012	Schlichting	Wesley	Extended Cavity Diode Laser
2012	Vievering	Julie	First Solar Images Using a Photon Sieve
2012	Wildenborg	Matt	Thermoacoustic Refrigeration
2011	Backes	Grant	Variable Stars
2011	Beckerleg	Jake	Atmospheric Ozone Measurements
2011	Byrne	David	Photometry of ASAS182682
2011	Dols	Rachel	A Cost-Effectiveness Analysis of Radon Mitigation in the Upper Midwest
2011	Hengel	Andrew	Light Scattering from Levitated Bubbles
2011	Jennissen	Brian	Atmospheric Aerosol Optical Depth
2011	Mackey	Travis	Acoustic Levitation of Laser Dye Droplets
2011	Rounds	Jacob	SJU Power Plant Efficiency, Emissions and Cost
2011	Terhaar	Ross	Automated Detection and Analysis of Meteors

2011	Walsh	Hannah	Spectrometry of the SJU Solar Farm
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