

UVM Mechanical Engineering Graduate Program Historical Enrollment & Graduation

Last Name, First Name	Degree	Defense Year	Thesis Title
<b>Martell, Mason</b>	MS	2023	Effects of Crystallization on Micromechanical Behavior of Polyethylene Nanocomposites
<b>Kerivan, Jonathan Leo</b>	MS	2023	Dynamical Modeling of Resistojet Style Thrusters for Fault Detection, and Fault Identification
<b>Brandriss, Owen</b>	MS	2023	Performance of a Low-Reynolds Discrete Swirl Injection Method Under a Range of Design Parameters
<b>Khodabandeloo, Sadegh</b>	MS	2023	Biomechanical Outcomes 1 Year After Acl Reconstruction And Meniscus Surgery
<b>Harvey, William</b>	MS	2023	The Overpressurization and Surface Contamination of On-Demand Pressure Systems
<b>Ballou, Ian</b>	MS	2023	Investigation of Silane Coating Treatments on Phynolic Impregnated Carbon Ablator for Mars and Future Planetary Exploration
<b>Storm, Randall</b>	MS	2023	Colloidal Particle Transport in Porous Media
<b>Chivers, Thomas</b>	MS	2023	Estimating particle velocity from dual-camera mixed reality video images using 3D particle tracking velocimetry
<b>Zuniga Cuellar, Kevin</b>	MS	2023	Tools To Measure Dispersion Descriptors From Polymer Nanocomposites
<b>Varakian, Jake</b>	MS	2023	non-thesis
<b>Plante, Owen</b>	MS	2022	Surface Temperature Measurement Fidelity in High Enthalpy Plasma Test Facilities
<b>Nolan, Christopher</b>	MS	2022	Silicon Carbide Fabric Catalysis Assessment in an Inductively Coupled Plasma Facility
<b>Stern, Mitchell</b>	MS	2022	Surface Volatilization Investigation of Graphite
<b>O'Neil, Daniel</b>	MS	2022	The Optimization of Rifle Barrel Harmonics
<b>Love, George</b>	MS	2022	pymooCFD - A Multi-Objective Optimization Framework for CFD
<b>Gopalkrishnan, Akiva</b>	MS	2022	Finite Element Deformation Of Silver Nanowire Networks
<b>Girard, Joshua</b>	MS	2022	On the Enhancement of Penetrating Radar Target Location Accuracy With Visual-Inertial SLAM
<b>Garland, Damien</b>	MS	2022	Active Acoustic Sensing Technologies For Practical Uav-Based Condition Assessment Of Underside Bridge Decks
<b>Bacher-Chong, Eli</b>	MS	2022	Constraint-Aware and Efficiency-Aware Control of Air-Path in Fuel Cell Vehicles
<b>Paris, Trevor</b>	MS	2022	Electrospraying of Designer Alginates for the production of powder-based tissue sealants
<b>Fordham, Collin</b>	MS	2022	<i>non-thesis</i>
<b>Hamann, Robert</b>	MS	2022	<i>non-thesis</i>
<b>Masada, Mezrah</b>	MS	2022	<i>non-thesis</i>
<b>Stone, Joshua</b>	MS	2022	<i>non-thesis</i>
<b>Gurchiek, Reed</b>	PhD	2021	Towards Remote Gait Analysis: Combining Physics and Probabilistic Models for Estimating Human Joint Mechanics
<b>Liu, Zhuang</b>	PhD	2021	Measurement on Stress-Time Avalanches of Fiber Reinforced Concrete Beams during Flexure
<b>Orfeo, Daniel J.</b>	PhD	2021	Shaped and Structured Fields for Underground Remote Sensing and Communication
<b>Curran, Kelly</b>	MS	2021	Statistics Of Particle Diffusion Subject To Oscillatory Flow In A Porous Bed
<b>Williams, Jacob</b>	MS	2021	A Peridynamic Simulation Of Repeated Projectile Impacts On A Steel Plate
<b>Voll, Brandon</b>	MS	2021	Carbon Monoxide Measurements in a CO2 Plasma Using Two-Photon Laser Induced Fluorescence
<b>Pringle, Malcom, Ryan</b>	MS	2021	Strengthening Mechanisms in Nanocrystalline Silver-Nickel Nanolayered Materials
<b>Liu, Yi</b>	MS	2021	3D acoustic pipe locator imaging based on finite element analysis
<b>Humphreys, Anna</b>	MS	2021	Characterization of Pressure and Temperature Reactions in an On-Demand Pressurization System for Small Satellite Propulsion
<b>Grepory, Diarmuid</b>	MS	2021	Chitosan-Based Shrinking Fibers for Post-Cure Stressing to Increase Durability of Concrete
<b>Yin, Fuqian</b>	MS	2021	Emergence of Elasto-Inertial Turbulence in 2D Natural Convection Flow with Polymer Additives
<b>Picard, Eve-Audrey</b>	MS	2022	Atomistic Simulation Study Of Nickel Solute Segregation And Mechanical Behavior In Nanocrystalline Fcc, Bcc And Hcp Binary Alloys
<b>Nenninger, Tara</b>	MS	2021	Atomic-scale Analysis of Solute Segregation Energy into Grain Boundaries and Polycrystals
<b>Schindler, Jeffrey</b>	MS	2021	Absolute Number Density Measurements of Atomic Species in Air and Nitrogen Plasmas

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Burgess, Sarah	MS	2021	<i>non-thesis</i>
Caraballo, Zachary	MS	2021	<i>non-thesis</i>
Cochrane, Ian	MS	2021	<i>non-thesis</i>
Hanssom, Arnar	MS	2021	<i>non-thesis</i>
Kim, Joon, Andrew	MS	2021	<i>non-thesis</i>
Knowlton, Andrew	MS	2021	<i>non-thesis</i>
Meisch, Sean	MS	2021	<i>non-thesis</i>
Yao, Selina Xiangxiao	PhD	2020	Using Dielectric Characterization to Study Transport and Thermal Properties of Gas/Supercritical Fluid Embedded Polymer Solution
Fang, Qiongjiali	PhD	2020	Understanding Grain Boundary and Stress Concentration Effects on Strengthening Mechanisms in Nanotwinned Metals
Jin, Xing	PhD	2020	Three-Phase Hybrid Model of Bacterial Biofilm Growth
Penide-Fernandez, Rodrigo	PhD	2020	Experimental and Computational Studies of Heat Transfer in Flexible Two-Dimensional Woven Fiber Ceramic Materials
Burton, Jonathan Robert	MS	2020	Subsurface Sensing With Shakers and Inspection Vehicles
Ezequelle, Wilson	MS	2020	Active Magnetic Sensing for Urban Target Discrimination
Freiheit, Collin J.	MS	2020	Reference Governors for Time-Varying Systems and Constraints
Heffernan, Thomas Joseph	MS	2020	Microwave Assisted Heating of a Ferromagnetically-Doped Propellant for Small Satellites : An Efficacy Study
Hurwitz, Zachary Lawrence	MS	2020	Economic Efficiency and Carbon Emissions in MES With Flexible Buildings
Jagun, Precious T.	MS	2020	Characterization of the University of Vermont Plasma Torch and Simulation of Pyrolysis Gas and Plasma Interactions
Laracy, Aidan Ridner	MS	2020	The Iteration Domain Reference Governor, a Constraint Management Scheme for Batch Processes
Ligon, Samuel Braggins	MS	2020	Optimization of Mixing Efficiency in Low Reynolds Unlike Doublet Injectors by Incorporating Swirl
Seksinsky, Drue	MS	2020	Modeling Volcanic Ash Particle Impingement in the Hot Sections of a Gas Turbine Engine
Valdez, Eduardo Enrique	MS	2020	Knee Articular Cartilage Material Properties Estimation Through FEA
Whitmore, Samuel	MS	2020	Numerical Simulations of an Inductively Coupled Plasma Torch
Etter, Jennifer	PhD	2019	Development and Characterization of Multi-Crosslinking Injectable Hydrogels for Use in Cell and Drug Delivery
Hinckley, David	PhD	2019	Multi-Objective Optimization Mission Design for Small-Body Coverage Missions
Pearl, Jason	PhD	2019	Quadrature-Based Gravity Models for the Homogeneous Polyhedron
Pereira, Mauricio	MS	2019	Ground Penetrating Radar Imaging and Systems <b>**Winner 2019-20 UVM Best MS thesis**</b>
Herrmann-Stanzel, Roland	MS	2019	Energy Accommodation From Surface Catalyzed Reactions in Air Plasmas
Adamowicz, Lukas	MS	2019	Functional Rotation Axis Based Approach for Estimating Hip Joint Angles Using Wearable Inertial Sensors <b>**Winner 2018-19 UVM Best MS</b>
Reilly, James	MS	2019	Design, Prototyping and Fabrication of Powder Spray Device for Dehydrated Biological Particulates
Angola Abreu, Enrique	MS	2019	Novelty Detection of Machinery Using a Non-Parametric Machine Learning Approach
Brancoforte, Kyle	MS	2019	<i>Non-thesis</i>
Mills, Ryan	MS	2019	<i>Non-thesis</i>
Norris, Keith	MS	2019	<i>Non-thesis</i>
Termine, Julia	MS	2019	<i>Non-thesis</i>
Hagan, Daniel	PhD	2018	Large Eddy Simulation of Oscillatory Flow Over a Mobile Rippled Bed Using an Euler-Lagrange Approach
Farajidizaji, Farzad	PhD	2018	Numerical Modeling of Collision and Agglomeration of Adhesive Particles in Turbulent Flows
Shuster, Samuel B. F.	MS	2018	Design and evaluation of a tactile texture production system
McCune-Sanders, W. Jason	MS	2018	An autothermal, representative scale test of compost heat potential using geostatistical analysis

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<b>Orfeo, Daniel J.</b>	MS	2018	Mechano-Magnetic Telemetry For Urban Infrastructure Monitoring
<b>Kim, Eric S.</b>	MS	2018	Smart in situ fibers and their applications
<b>Farrell, Robert J.</b>	MS	2018	Rotating Magnetometry for Terrestrial and Extraterrestrial Subsurface Explorations
<b>Diez-Romero, Sandra</b>	MS	2018	Crystallization Study of Polymers Under High Pressure Gas / Supercritical Fluid
<b>Bernard, Donald E.</b>	MS	2018	Optimization of Turbulent Prandtl Number in Turbulent, Wall Bounded Flows
<b>Tomko, Timothy A.</b>	PhD	2017	Bioprospecting For Genes That Confer Biofuel Tolerance To Escherichia Coli Using A Genomic Library Approach
<b>McLean, James S.</b>	PhD	2017	Navigational Complexity Within Building Codes
<b>Curtis Saunders, Daniel</b>	PhD	2017	Wind Turbine Wake Interactions - Characterization of Unsteady Blade Forces and the Role of Wake Interactions in Power Variability Control
<b>Montane, Paul</b>	PhD	2017	Ripple Performance Instrumentation, Modeling, and Testing for Wet Tantalum Capacitors
<b>Kim, Sundong (Eric)</b>	MS	2017	Smart In Situ Fibers And Their Applications
<b>McCune-Sanders, William J.</b>	MS	2017	An Autothermal, Representative Scale Test Of Compost Heat Potential Using Geostatistical Analysis
<b>Arcovitch, Cory M.</b>	MS	2017	Fabrication And Thermoelectric Characterization Of Stretchable Conductive Latex-Based Composites
<b>Karasinski, Michael A.</b>	MS	2017	Manufacturing Microfluidic Flow Focusing Devices For Stimuli Responsive Alginate Microsphere Generation And Cell Encapsulation
<b>Martin, Nicholas C.</b>	MS	2017	Steady State Simulation of Pyrolysis Gases in an Inductively Coupled Plasma Facility
<b>Tillson, Corey</b>	MS	2017	Investigation of Pyrolysis Gas Chemistry in an Inductively Coupled Plasma Facility
<b>Bond, Justin M.</b>	MS	2017	Status Monitoring Of Inflatables By Accurate Shape Sensing
<b>Wood, Stephanie</b>	MS	2017	Gravitational Potential Modeling of Near-Earth Contact Binaries
<b>Green, Adam</b>	PhD	2016	Structure and Dynamics of Two Flow Fields Used for Particle Deposition onto and Removal from a Substrate
<b>Allen, Luke D.</b>	MS	2016	Assessment Of Surface-Catalyzed Reaction Products From High Temperature Materials In Plasmas
<b>Pearl, Jason Michael</b>	MS	2016	Two-Dimensional Numerical Study of Micronozzle Geometry
<b>Gagne, Kevin R.</b>	MS	2016	Development of an Additively Manufactured Microthruster for Nanosatellite Applications
<b>Crocker, Ryan</b>	PhD	2015	Direct Numerical Simulation of Ablative Boundaries in Turbulent and Laminar Flows
<b>Owens, Walten</b>	PhD	2015	Aero-Thermal Characterization of Silicon Carbide Flexible TPS Using a 30KW ICP Torch
<b>Lutz, Andrew</b>	PhD	2015	Experimental Investigation and Analysis of High-Enthalpy Nitrogen Flow Over Graphite
<b>Dougherty, Maximilian J.</b>	PhD	2015	Numerical Simulations of Reacting Flow in an Inductively Coupled Plasma Torch
<b>Hinckley Jr., David William</b>	MS	2015	Multi-Satellite Formation Trajectory Design with Mission Constraints Over a Region of Interest Using Differential Evolution
<b>Tomko, Timothy A.</b>	MS	2015	Bioprospecting for Genes that Confer Biofuel Tolerance to Escherichia Coli Using a Genomic Library Approach
<b>Pond, Ian Bradbury</b>	MS	2015	Toward an Understanding of the Breakdown of Heat Transfer Modeling in Reciprocating Flows
<b>Fang, Qiongjiali</b>	MS	2015	The Interaction Mechanisms of a Screw Dislocation with a Defective Coherent Twin Boundary in Copper
<b>Charron, Patrick Nelson</b>	MS	2015	Burst Pressure Properties and Ex Vivo Analysis of Alginate-Based Hydrogels for Tissue Sealant Applications
<b>Turner, William James</b>	MS	2015	Understanding and Improving Microbial Biofuel Tolerance as a Result of Efflux Pump Expression Through Genetic Engineering and
<b>Edwards, Michael B.</b>	MS	2015	Characterization of Fillite as a Planetary Soil Simulant in Support of Rover Mobility Assessment in High-Sinkage/High-Slip Environments
<b>Fuhrmann, Andrew Paul</b>	MS	2015	Effect of Rainfall Events on the Thermal and Moisture Exposure of Underground Electric Cables
<b>Connor, Christopher Benoit</b>	MS	2015	<i>Non-thesis</i>
<b>Bruce, Kyle</b>	MS	2015	<i>Non-thesis</i>
<b>Smith, Dustin</b>	MS	2015	<i>Non-thesis</i>
<b>Wood, Erin Leigh</b>	PhD	2014	An Atomic Force Microscopy Nanoindentation Study of Size Effects in Face-Centered Cubic Metal and Bimetallic Nanowires

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McDevitt, Ryan M.	PhD	2014	A Discrete Multiphase Approach to Monopropellant-Based Micropropulsion
Pearson, Stephen	MS	2014	Nonlinear Ball Chain Waveguides for Acoustic Emission and Ultrasound Sensing of Ablation
Hagan, Daniel	MS	2014	Numerical Study of Particle Bed Scour by Vortices
Ghazi, Christopher Joseph	MS	2014	Measurement of Fluid and Particle Transport Through Narrow Passages
Faletta, Melissa Kathleen	MS	2014	Segregation of Particles of Variable Size and Density in Falling Suspension Droplets
Koch, Meredith Ericson	MS	2014	Mechanical Optimization of Poly (Vinyl Alcohol) Cryogels to Activate Osteochondral Mechano Transduction Pathways
Razinger, Jonathan S.	MS	2014	Performance Evaluation of an Air-Coupled Phased-Array Radar for Near-Field Detection of Steel
Porter, Aaron	MS	2014	Atomistic Simulation Study of Thermal Transport in Nano-Twinned Silicone Materials
Merkel, Daniel R.	MS	2014	Fabrication and Testing of Flexible Indium Antimonide Nanowire Networks
Kuzma, Justin D.	MS	2014	<i>Non-Thesis</i>
Faryniarz, Luke	MS	2014	Mathematical Modeling of Hydrogen Peroxide Catalysis for Mems Thruster Applications
Vachon, Nicholas	PhD	2013	A Bound-Vortex Surface Impingement Method for Dust Particle Removal and Enhanced Heat Transfer
Sankaran, Simtha Renjitham	PhD	2013	An Overset Grid Vorticity Transport Method for Flow Past Fixed and Moving Bodies
Gu, Jingjun	PhD	2013	Roles of Surface and Internal Structures in the Mechanical Behavior of Carbon Nanofibers
Uhl, Jurgen	MS	2013	Pyrolysis Investigation in an ICP Torch Facility
Smith, Silas F.	MS	2013	Investigation of Subsonic and Supersonic Flow Characteristics of an Inductively Coupled Plasma Torch
Sala, Kyle P.	MS	2013	Analysis of Stochastic Methods for Predicting Particle Dispersion
Rothaupt, Michael	MS	2013	-
Menon, Praneet P.	MS	2013	A Diagnostics Approach for Helicopter Drive Train Systems
Sturnick, Daniel	MS	2013	The Relationship Between Knee Joint Geometry and Risk of Suffering Anterior Cruciate Injury: A Prospective Study with a Nested Case-Control
Simtha, Renjitham	PhD	2012	An Overset Grid Vorticity Transport Method for Flow Past Fixed and Moving Bodies
Cui, Jianghong (Hunter)	PhD	2012	Multiple Sensor Periodic Nondestructive Evaluation on Concrete Bridge Deck Maintenance
Menon, Praneet	MS	2012	A Diagnostics Approach for Helicopter Drive Train Systems
Sala, Kyle	MS	2012	ANALYSIS OF STOCHASTIC METHODS FOR PREDICTING PARTICLE DISPERSION
Uhl, Jurgen	MS	2012	Pyrolysis Simulation in an ICP Torch Facility
Widdis, Stephen	MS	2012	Computational and Experimental Studies of Catalytic Decomposition of H <sub>2</sub> O <sub>2</sub> Monopropellant in MEMS-Based Micropropulsion Systems
Burns, Dylan	PhD	2011	Advanced Structural Measurement and Control
Hurley, David	PhD	2011	Embedded and remote systems for damage detection, assessment, and repair
Cowley, Leonie	MS	2011	Mechanical Role of Phospholipid Bilayers in Boundary Lubrication of Synovial Joints
Dougherty, Maximilian	MS	2011	Investigations of Surface-Catalyzed Recombination Reactions in the Mars Atmosphere
Greenfield, Ben	MS	2011	Numerical Simulations of Multiphase Flow in Supersonic Micro-Nozzles
Lutz, Andrew	MS	2011	Investigation of CN Production From Carbon Materials in Nitrogen Plasmas
Malina, Evan W.	MS	2011	Mechanical Behavior of Atomically Thin Graphene Sheets using Atomic Force Microscopy Nanoindentation
Maynard, Auston	MS	2011	Particle Removal from a Surface by a Bounded Vortex Flow
McDevitt, M. Ryan	MS	2011	Numerical Study of Disperse Monopropellant Microslug Formation at a Cross Junction
Owens, Walten	MS	2011	Development of a 30K W Inductively Coupled Plasma Torch for High Temperature Aerospace Material Testing at UVM
Qian, Dongmin	MS	2011	Efficiency analysis of solar panel dust mitigation using an electric curtain
Veselis, Meaghan	MS	2011	<i>non-thesis</i>

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<b>Barbir, Ana</b>	PhD	2010	Mechanobiology of the rat intervertebral disc in compression and torsion
<b>Hewitt, Gregory F.</b>	MS	2010	A Computational Investigation of Particle Focusing and Dispersion in Corrugated Tubes
<b>Nadler, Michael</b>	MS	2010	Experimental Measurement of Mixing Lengths of Converging Particulate Flows in a Microchannel
<b>Vachon, Nicholas M.</b>	MS	2010	A Bound Vortex Surface Impingement Method for Adhered Dust Particle Removal
<b>Louisos, William F.</b>	PhD	2009	Numerical Studies of Viscous Flow in Supersonic Micronozzles
<b>Michalek, Arthur James</b>	PhD	2009	Structural Influences of Damage to the Intervertebral Disc Anulus Fibrosus at Multiple Scales
<b>Kahn, Ezra</b>	MS	2009	non-thesis option
<b>McCabe, Justin W.</b>	MS	2009	Monopropellant Fuel Injection Using Two-Phase Micro-Slug Formation
<b>Thompson, Corinna Sue</b>	MS	2009	Analysis of Spectrally Resolved Shock-Layer Emission
<b>Dupont, Virginie</b>	PhD	2008	Multiscale Modeling of Contact Plasticity and Nanoindentation in Nanostructured FCC Metals
<b>Korecki, Casey L.</b>	PhD	2008	Effects of compression loading, injury, and age on intervertebral disc mechanics, biology and metabolism using large animal organ and cell
<b>Rollin, Bertrand</b>	PhD	2008	On the Influence of Large Scale Forcing and Flow Topology on the Dynamics of Small-Scale Turbulent Transport
<b>Hurley, David</b>	MS	2008	Laser Copper Plasma X-ray Source Debris Characterization
<b>Knight, Jason</b>	MS	2008	non-thesis
<b>Mandell, Joshua</b>	MS	2008	non-thesis
<b>Martin, Thomas</b>	MS	2008	non-thesis
<b>Langerand Lagies, Dulcie</b>	MS	2007	Multiscale Investigation of the Mechanical Properties of High-Strength Polymeric Fibers
<b>Lubinski, Jacob</b>	MS	2007	Biomechanical and Swelling Behaviors of the Intervertebral Disc in Varying Osmotic Environments
<b>Peach, John</b>	MS	2007	non-thesis
<b>Wigdalski, Adam</b>	MS	2007	Numerical Simulations of Convection in a Cavity Driven by an Oscillating Heated Boundary
<b>Zilic, Adis</b>	MS	2007	Numerical Simulations of Supersonic Flow in a Linear Aerospike Micro Nozzle
<b>Burns, Dylan</b>	MS	2006	Aerolastic Mechanics of Thin Film Membranes in Proximity Lithography
<b>Spencer, Graham Thornton</b>	MS	2006	Composite Drive Shaft Dynamic Response Optimization
<b>Stevenson, Kevin</b>	MS	2006	Electrochemical Synthesis and Mechanical Properties of Nickel Nanostructures
<b>Bartlett, Brent</b>	MS	2005	Design of a Microturbine Driven by Catalytically Decomposed Hydrogen Peroxide
<b>Korecki, Casey</b>	MS	2005	Development of an Organ Culture System for Evaluating Damaging Compression Loading on Intervertebral Disc Explants
<b>Louisos, William F.</b>	MS	2005	Viscous effects in 2-D supersonic micro-nozzle flow
<b>McGarry, Matthew T.</b>	PhD	2004	Numerical simulations of arterial and venous bleeding
<b>Kujawa, Jeffrey P</b>	MS	2004	Numerical simulations of steady and transient flow in a supersonic MEMS nozzle
<b>Miller, Jonathan</b>	MS	2004	Robotic systems for inspection surveillance of civil structures
<b>Plumpton, James Osborne</b>	MS	2004	Active membrane masks for improved overlay performance in proximity lithography
<b>Harris, Timothy R.</b>	PhD	2003	Geometric effects on separation surfaces in converging microchannel flows
<b>Kosmopoulos, Victor</b>	PhD	2003	Trabecular bone damage and repair

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<b>Miller, Mark S.</b>	PhD	2002	Locomotor activity of <i>Drosophila melanogaster</i> (Fruit flies) during microgravity and hypergravity exposure
<b>Rohyans, Kevin</b>	MS	2002	Quasi-Static Profiles of a Compound Drop Growing From a Submerged Concentric Needle Arrangement
<b>Coulson, Rebecca</b>	MS	2002	Effects of smooth muscle cell activation and ischemia on the mechanical properties of cerebral arteries
<b>He, Zhi</b>	MS	2001	Quantitative Sonographic Prostate Cancer Characterization
<b>Steward, Anthony</b>	MS	2001	Material structural characterization using dynamic system analysis
<b>Patterson, Michael K.</b>	PhD	2000	The geometric dependence of the thermal conductivity of heterogeneous media
<b>Sauter, Wolfgang</b>	PhD	2000	Thin film mechanics bulging and stretching
<b>Coates, Audrey D.</b>	MS	2000	The design, development, and validation of the EMG grid
<b>Hu, Jing Qiong</b>	MS	2000	Good impedance match antenna (GIMA) design and its applications for ground penetrating radar in concrete structures NDE applications
<b>Suiter, Kari E.</b>	MS	2000	Gantry control and design of an X-ray stepper $\gamma$ -stage
<b>Liebschner, Michael</b>	PhD	1998	Hydraulic strengthening and intrinsic permeability coefficient of cortical bone tissue
<b>Saxena, Rakesh</b>	PhD	1998	A Three-Dimensional Finite Element Scheme to Investigate the Apparent Mechanical Properties of Trabecular Bone
<b>Novotny, John</b>	PhD	1997	Experimental and analytical investigations of the glenohumeral joint
<b>Adam, Christopher S.</b>	MS	1997	Ground Penetrating Radar for Non-Destructive Evaluation of Concrete Bridge Decks
<b>Fleming, Braden C.</b>	PhD	1996	The in vivo strain behavior of the anterior cruciate ligament during stationary bicycling : an experimental and analytical investigation
<b>Neary, Timothy Edward</b>	PhD	1996	In-situ measurement of Lamb wave phase velocities in composite plates with an application for defect detection
<b>Fahey, Sean O'Flaherty</b>	MS	1996	A novel eight-member mechanism with application in precision two wheel automotive steering including a detailed discussion of Ackermann's
<b>Brown, Jerry L.</b>	PhD	1995	The effects of electromagnetic stirring on solidification in investment casting
<b>Ambrose, Timothy P.</b>	MS	1994	Automation of Wire Handling and Stripping Manufacture of Multiconductor Coaxial Cable
<b>Altshuler, Kenneth J.</b>	MS	1993	The Study of Friction and Wear Using a Pin-on-Disk Tribometer
<b>Anderson, Todd</b>	MS	1993	A Dynamic Femoral Hip Prosthesis
<b>Diehl, Matthew D.</b>	MS	1992	Modeling of Thermal Benefits for Diamond Coated Alumina Tool Inserts
<b>Beynonn, Bruce</b>	PhD	1991	The <u>In vivo</u> biomechanics of the anterior cruciate ligament, reconstruction, and application of a mathematical model to the knee joint
<b>Medoff, Howard P.</b>	PhD	1990	The relationship between performance, comfort and safety in alpine ski boots
<b>Smith, Suzanne D.</b>	PhD	1988	The biodynamic response characteristics of a seated primate to whole-body $g_z$ vibration exposure using the non-invasive impedance technique
<b>Steinhurst, William Ronald</b>	PhD	1988	On some aspects of the thermoplastic instability in engineering
<b>Vorsteveld, Lolke Geert</b>	PhD	1988	Geometric considerations in the ignition process of solid propellants : theory and experiment
<b>Rong, Hong</b>	MS	1988	Damping Synthesis Using Free Interface Complex Substructure Modes

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<b>Dansereau, Jean</b>	PhD	1987	Rib cage deformation in scoliosis
<b>Wilder, David Gould</b>	PhD	1985	On loading of the human lumbar intervertebral motion segment
<b>Brown, Christopher</b>	PhD	1983	Material Behavior During Chip Formation
<b>Merten, Charles William</b>	PhD	1983	Thermal shock/fatigue of WC-Co alloys
<b>Durham, Delcie</b>	PhD	1981	Modelling adiabatic deformation: the metallurgical requirements
<b>Algera, Robert</b>	MS	1979	Human Body Dynamics Duing Restrained Fall
<b>Wilder, David Gould</b>	MS	1978	On the mechanics of the lumbar spine
<b>Buturla, Edward Michael</b>	PhD	1976	Convergence investigations of parabolic and hyperbolic finite element formulations
<b>Henderer, Willard Everett</b>	PhD	1976	On the art of tapping metals
<b>Crowninshield, Roy Douglas</b>	PhD	1975	On the biomechanics of the knee
<b>Jacobs, Carl Henry</b>	PhD	1974	An analysis of the drilling characteristics of bovine bone
<b>Kumble, Raghvir G.</b>	PhD	1973	The evaluation of anisotropy and plane strain properties of cast and wrought materials
<b>Murphy, Michael Clifford</b>	PhD	1972	The principles of fracture mechanics applied to the failure modes of fiber reinforced composites and to the fatigue of selected brittle resins and
<b>Pope, Malcom Henry</b>	PhD	1972	On the Fracture of Bone Substance
<b>Das, Prasanta</b>	MS	1971	Dynamics of passenger restraint systems
<b>Skinner, David Robert</b>	MS	1971	A finite element model for static and dynamic analyses of axisymmetric shells
<b>Amidon, John Leonard</b>	MS	1970	Application of the Hydraulic Analogy to Supersonic Flow over Bluff Bodies
<b>Buturla, Edward Michael</b>	MS	1970	Optimization of photographic registration in a thermal environment
<b>Ettlinger, Carl Frederick</b>	MS	1970	On the prevention of ski injuries
<b>Das, Pranab Kumar</b>	MS	1969	An energy absorber utilizing plastic deformation of metal
<b>Ghose, Sunil Kumar</b>	MS	1969	Two-phase blowdown from vessels including bubble rise and condensate drop dynamics [
<b>Makkenchery, Suresh</b>	MS	1969	A water reactor pressurizer model with bubble rise and condensate drop dynamics
<b>Mastro, Giustino</b>	MS	1969	A further investigation to determine an index to adjust snow ski bindings : with emphasis on ski binding characteristics and analysis of ski
<b>Murphy, Michael</b>	MS	1969	The dependance of glass reinforced resin composite fracture energy on temperature and humidity
<b>Prabhu, Manohar S.</b>	MS	1969	The effect of vapor velocity in laminar film condensations on a vertical wall
<b>Carnes, William O</b>	MS	1968	The fracture energy of composite materials

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<b>Bloom, George Henry</b>	MS	1968	The effect of surface finish on the dynamic fatigue of glass rods subjected to Hertzian stress
<b>Brosseau, Timothy Lee</b>	MS	1967	A numerical method for determining transient thermal stresses in centrally heated short hollow cylinders
<b>Gallo, James David</b>	MS	1967	The behavior of conical indentation fractures in glass
<b>Lee, Robert Bruce</b>	MS	1967	A transient thermal and residual stress analysis model comsidering elastic-plastic strain in a thin disk
<b>Gerry, Donald John</b>	MS	1966	Fracture energy determination of selected brittle materials using an original technique
<b>Trevaskis, Walter Allen</b>	MS	1965	Statistical estimation of frangible circuit failure using probit analysis.
<b>Kellogg, David Holt</b>	MS	1964	The effect of absorbed coupling agents on the glass-finish-resin interface
<b>Miner, Louis H.</b>	MS	1964	On the strength of glass with different methods of loading
<b>Shakun, Wallace</b>	MS	1964	Mathematical model of a dynamic system having multiple degrees of freedom
<b>Seibert, Willard Julius</b>	MS	1963	Static fatigue characteristics of fiber glass filament wound pressure vessels
<b>Berg, William Henry</b>	MS	1962	A factorial experiment to determine the significant characteristics of a hydraulic motor
<b>Breed, John Lincoln</b>	MS	1962	The dynamic mechanical properties of polymethylmethacrylate cantilevers at resonance
<b>Ozaltin, Oguzcan</b>	MS	1962	The surface effects of various environments and the thermosetting resins on glass
<b>Matta, Joseph Tannus</b>	MS	1961	The effect of temperature and time on the shrinkage stresses within thermosettings