ANNUAL ENGINEERING DESIGN EXPO
Friday, May 3, 2019 | Wooster Hall

1 p.m. Refreshments and Networking
1:30 p.m. Welcome Remarks
1:45 p.m. Judging Begins
3:30 p.m. Winners Announced
Hello and Welcome!

We are thrilled to have you join us today for our Annual Engineering Design EXPO. I look forward to this day each year, when our student's creativity is on full display. Engineers perform tasks such as management and testing, but creating a system (electrical, computer or mechanical) is undoubtedly the most gratifying intellectual experience. To see the process of students translating ideas from paper, into systems that perform a function useful to society, is a truly rewarding experience.

This year, the EXPO consists of 17 Senior Design II presentations and 6 Master's projects.

I would like to thank all the faculty, judges and mentors for consistently improving the quality of the Senior Design experience here at SUNY New Paltz. I would also like to thank the following EXPO sponsors for their support: ELNA Magnetics, MPI Systems, Spectra Vista Corporation, JBT Corporation®, Central Hudson® and GeoSync Microwave Systems.

Congratulations to all of our engineers!

Enjoy the EXPO!

Julio Gonzalez, Chair
Division of Engineering Programs

Congratulations to all of SUNY New Paltz Division of Engineering Program's graduating engineers, from your friends at the American Society of Mechanical Engineers.
Automated Keg Sanitizing Machine
Yorman Escobar ME
Bradley Evans ME
Brendan McGaley ME
Scott Grable EE
Advisor: Dr. Jared Nelson • Co-advisor: Jake Maglio

Security/Disaster Relief Drone
Anthony Allwood CE
Lorenzo Galante CE
Francis Morales ME
Tyrell Perkins EE
Advisor: Dr. Ghader Eftekhari

Passively Powered Wireless pH Sensor for Gastric Disorder Analysis
Kevin Hart EE
Sean Hart EE
Tucker Lundgren ME
Nicholas Piaquadio EE
Advisor: Dr. Reena Dahle

Autonomous Guitar Tuner
Dylan Lynn EE
Matthew Manfredi ME
Adam Russell EE
Rebecca Gotlib ME
Advisor: Dr. Ping-Chuan Wang

Vital Hearing Aids
Ronald Fasano CE
Timothy Mei EE
Kelly Son ME
Jenna Xian CE
Cyra Haguisan ME
Advisor: Dr. Damodaran Radhakrishnan
Co-advisor: Ken Bird

Greenhouse Window Automation
Usama Agha EE
Bryan Feigel ME
James Reap ME
Tyler Rihm ME
Zhenyu Zhou CE
Advisors: Dr. Heather Lai

Partial Prosthetic Finger for Climbing
Jing Lin ME
Swami Mendieta ME
Eli Rogers ME
Bryan Michael Sison EE
Advisor: Dr. Heather Lai

Peddling Fatigue Testing of Racing Bicycle Frames
Nigel Caprotti ME
William Hluchan EE
Ryan O’Connell ME
Adeleke Ojudun EE
Advisor: Dr. Jared Nelson • Co-advisor: Ken Bird

Multi-Purpose End of Arm Tooling
Zachary Covert ME
George Dagis CE
Marian Elflein ME
Ryan Foertsch ME
Eric Milczewski ME
Advisor: Dr. Ping-Chuan Wang
Co-advisors: Michael Otis and Aaron Phipps

Fluid - Current Demonstrator
Noah Bauer EE
Sean Cerven ME
Matthew Gottstine ME
Steven Sullivan CE
Advisor: Dr. Kevin Shanley • Co-advisor: Reena Dahle
Personal Automated Air Mixing Chamber
Jennifer Luu ME
Eli Mehmeti EE
Alexis Mena ME
Hanami Robles ME
Advisors: Dr. Kevin Shanley
Co-advisor: Steve Michalski

Solar Powered Thermo Electric Cooler
Issouf Kiema EE
Jose Castillo ME
Samir Bah Rabiou CE
Advisors: Dr. Yi-Chung Chen and Dr. Rachmadian Wulandana
Masters in Electrical Engineering

ARM LEGv8 CPU (Processor) Design and Implementation
Nisha Shashibabu
Advisor: Dr. Baback Izadi

Real Time Telemetry and Its Role in Software Defined Networking
Shweta Sawant
Advisor: Dr. Nisar Ahmad

Testing, Compliance and Certification
Ishita Sujit Ghosh
Advisor: Dr. Damadaron Radhakrishnan

CoolProp Online Calculator
Justin Barlow
Advisor: Dr. Rachmadian Wulandana

UVM Environment for Verification of RISC-V Processor
Vatsal Kiritbhai Mashruwala
Advisor: Michael Otis

Prometheus and Snort in Mininet Environment
Henry Wilson-Sowah
Advisor: Dr. Nisar Ahmad

CONGRATULATIONS SENIORS!

WISHING YOU ALL THE BEST ON YOUR ENGINEERING JOURNEY

THE MARKET'S NEED

JOIN OUR TEAM AND GROW WITH US

We offer a rewarding career with a great benefit package. You will work with a team of dedicated professionals in technical operations, shipping and receiving team along with a sales and administrative staff.

HOW TO APPLY
Visit our website at www.elnamagnetics.com/careers/
Email your resume to hr@elnamagnetics.com

OWN THE PATH TO YOUR SUCCESS AND APPLY TODAY

OUR MISSION...

Is to be the magnetic core supplier of choice for both standard and custom products by providing the greatest value to each one of our customers and to do this more efficiently, economically, and effectively than our competitors. By satisfying our customers' needs, we will continue to do business with us, and we recommend us to others.

LETS' TURN YOUR IDEAS INTO REALITY!

203 Malden Turnpike • Boston, MA 02147
Toll Free: 800-663-2870
Sales/Customer Service Fax: 617-647-0788
A Special Thank You to our Engineering Design EXPO Judges

Royal Agha '15
Millrock Technology, Inc.

Dylan Atkins '17
MPI Systems, Inc.

Ron Bucinell
Union College

Fadi Busaba
IBM

Luke Buschmann '08
IBM

Andrew Cash
GeoSync Microwave, Inc.

PJ Catalano '03
IBM

Stevana Coliukos '16
IBM

Adam Collura
IBM

Nicholas Crimmins '15
IBM

Alper Demirci '15
GeistM

Robb Engel
Sono-Tek

Frank Falatyn
FALA Technologies

Robert Ferrante '18
Ceres Technologies

Joe Ferraro
ELNA Magnetics

Megan Gangewere '18
Entergy Corporation

Karyn Hurley '00
GLOBALFOUNDRIES

Adam Kaczmarek '05
Entergy Corporation

John Kelly '02
Central Hudson Gas & Electric

Ilya Korisch
LGS Innovations

John Kuhling '17
L3 Technologies

Ian Matthews '15
L3 Technologies

Khaalid McMillan '00
IBM

Israel Moskovitch
GeoSync Microwave, Inc.

Ted Nitza Jr.
Walden Environmental Engineering

Steve Phillips
GeoSync Microwave, Inc.

Chelsea Pontrello '16
Gibbs & Cox, Inc.

Michel Rigaud '94
Ceres Technologies

Joseph Saltarelli
eMagin Corporation

Alicia Scott '18
BQ Energy LLC

Adam Secovnie '15
EAW Electronic Systems

Mikaela Stiklickas '17
Lockheed Martin

Rasit Topaloglu
IBM

John Werner '09
IBM

Thank you to the following Engineering Sr. Design EXPO Sponsors:

Kilowatt Sponsor

Royal Agha '15
Millrock Technology, Inc.

Dylan Atkins '17
MPI Systems, Inc.

Ron Bucinell
Union College

Fadi Busaba
IBM

Luke Buschmann '08
IBM

Andrew Cash
GeoSync Microwave, Inc.

PJ Catalano '03
IBM

Stevana Coliukos '16
IBM

Adam Collura
IBM

Nicholas Crimmins '15
IBM

Alper Demirci '15
GeistM

Robb Engel
Sono-Tek

Frank Falatyn
FALA Technologies

Robert Ferrante '18
Ceres Technologies

Joe Ferraro
ELNA Magnetics

Megan Gangewere '18
Entergy Corporation

Karyn Hurley '00
GLOBALFOUNDRIES

Adam Kaczmarek '05
Entergy Corporation

John Kelly '02
Central Hudson Gas & Electric

Ilya Korisch
LGS Innovations

John Kuhling '17
L3 Technologies

Ian Matthews '15
L3 Technologies

Khaalid McMillan '00
IBM

Israel Moskovitch
GeoSync Microwave, Inc.

Ted Nitza Jr.
Walden Environmental Engineering

Steve Phillips
GeoSync Microwave, Inc.

Chelsea Pontrello '16
Gibbs & Cox, Inc.

Michel Rigaud '94
Ceres Technologies

Joseph Saltarelli
eMagin Corporation

Alicia Scott '18
BQ Energy LLC

Adam Secovnie '15
EAW Electronic Systems

Mikaela Stiklickas '17
Lockheed Martin

Rasit Topaloglu
IBM

John Werner '09
IBM

Thank you to our SPONSORS

MEGAWATT SPONSORS

Royal Agha '15
Millrock Technology, Inc.

Dylan Atkins '17
MPI Systems, Inc.

Ron Bucinell
Union College

Fadi Busaba
IBM

Luke Buschmann '08
IBM

Andrew Cash
GeoSync Microwave, Inc.

PJ Catalano '03
IBM

Stevana Coliukos '16
IBM

Adam Collura
IBM

Nicholas Crimmins '15
IBM

Alper Demirci '15
GeistM

Robb Engel
Sono-Tek

Frank Falatyn
FALA Technologies

Robert Ferrante '18
Ceres Technologies

Joe Ferraro
ELNA Magnetics

Megan Gangewere '18
Entergy Corporation

Karyn Hurley '00
GLOBALFOUNDRIES

Adam Kaczmarek '05
Entergy Corporation

John Kelly '02
Central Hudson Gas & Electric

Ilya Korisch
LGS Innovations

John Kuhling '17
L3 Technologies

Ian Matthews '15
L3 Technologies

Khaalid McMillan '00
IBM

Israel Moskovitch
GeoSync Microwave, Inc.

Ted Nitza Jr.
Walden Environmental Engineering

Steve Phillips
GeoSync Microwave, Inc.

Chelsea Pontrello '16
Gibbs & Cox, Inc.

Michel Rigaud '94
Ceres Technologies

Joseph Saltarelli
eMagin Corporation

Alicia Scott '18
BQ Energy LLC

Adam Secovnie '15
EAW Electronic Systems

Mikaela Stiklickas '17
Lockheed Martin

Rasit Topaloglu
IBM

John Werner '09
IBM

KILLOWATT SPONSOR

Spectra Vista Corporation

WATT SPONSORS

GeoSync Microwave, Inc.
ANNUAL ENGINEERING DESIGN EXPO

SUNY New Paltz
Division of Engineering Programs
Resnick Engineering Hall, 114
1 Hawk Drive
New Paltz, NY 12561
845-257-3720
engr@newpaltz.edu