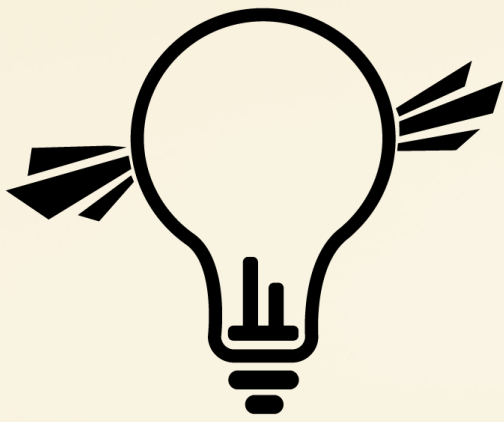




STUDENT
Innovation
+ Excellence
SHOWCASE



APRIL 24, 2025
PURDUE UNIVERSITY
INDIANAPOLIS, INDIANA

SESSION 1

10:30 a.m. to 12:00 p.m. | Campus Center, Room 450

Posters sorted by first author's last name each session.

Only presenting authors and mentors () are listed. Contributing authors and acknowledgements are listed in the abstract book online.*

- 100** Autonomous Kart
VIP *Ahammad Ashar Ahammad Ashar; Krtin Akkineni; Daniella Daluchi Chizoba Ejeckam; Kjaesean Jaisyn Forde; Kalani K Harada; Nolan Lee Hardman; Vasanth Kalangari; Brandon Lee Koers; Juan Felipe McKendry; Pinidu Nanayakkara; Annalyz Nguyen; Zilan Patel; Neilambar Risal; Chaitanya Dnyanesh Sonawane; Cameron G Summersgill; Charles Holliday Jenckes**
- 101** Juncos Hollinger Racing Brake System Test Bed
Motorsports *Padraig Alford; Saketh E Thillai; Brandon Christopher Howard; Andres Tovar**
Engineering
Capstone
- 102** Automated Spark-Based Data Filtering Tool for Trip Qualification
The Data *Raja Allmdar Tariq Ali; Vishal Wagh; Avanish Jayarama Mallya; Hana Zoaib; Jazmin Pulido;*
Mine *Muhammad Ahmad Rizwan; Ping-Chun Tsou; Prisha Singh; Vihaan Pradeep; Margaret Ann Betz*; Bryce Castle**
- 103** Enhancing Farmer Access to Agricultural Programs in Indiana
The Data *Raja Allmdar Tariq Ali; Adwin Sujin; Alexia Isabella del Cuvillo; Dhiren T Rao; Emily*
Mine *Zhongqing Zheng; Eric Tang; Richin Mrudul; Sai Amruta Varshini Killampalli; Victor Popescu; Margaret Ann Betz*; Bryce Castle**
- 104** Optimization of Food Pantry
EPICS *Jaden Patricio Almendarez; Nishant Bonthala; Daniel Richard Douglas; Shauryeh Raj Kapur; Arnav Rajay Khapekar; Victoria Susan Mantai; Keshav Elesh Patel; Ishaan Raut; Carter Egan Reeve; Yianni Nicholas Roditis; John Richard Semenoro; Luke Gorman Stratford; Vanisha Rajlakshmi Vanisha Rajlakshmi; Ofer Zeltzer; Kevin T Lee*; Ramaa Saket Suri**
- 105** VIP 17912's Section 504 Presentation
VIP *Sayee Sabri Anand; Yusuf Esmat Arafa; James Courtland Bailey; Joseph Adam Braun; Julian Bawi Lian Cawi; Luke Davis; Evelyn Clare Hays; Tristen John-Paul Hendzel; Rich Liu; Maverick James Masterson; Dashel Xavier Meiners; James M Scanlan; Nahyr Sehgal; Sachiv Sekaran; Koebin M Shake; Nathaniel Ray Willhite; Zi Zhu; Charles Holliday Jenckes*; Steven R Dunlop*; Ahamed Thaha Hussein**
- 106** Outdoor Theater Camp Riley
EPICS *Nurlan Arzumanzade; Austin Ray Hughes; Jude Stephen Kieper; Jibrael Rasheed Crossman; Natalie Rose Vasquez; Landon James Paul; Daniel Larue Armstrong; Kevin T Lee*; Sai Abhishikth Somishetty**
- 107** BME Outreach
EPICS *Mehdi Omar Badawi; Malachi Eriq Barnett; Logan Taylor Bragg; Aurelia Azifa Chelfannisa; Alia Eissa; Ava Elizabeth Fuchs; Diego Lara Prieto; Seongho Lee; Mason William Smith; Aliza Marie Soyster; Elizebeth Ann Zike; Sydney Gorman Hillan**
- 108** Engineering Escape Room
EPICS *Daniel Patrick Bueno; Liam Benjamin Ramos; Steve Clayton Rausch**

- 109**
The Data Mine
Data Driven Defect Analysis in High Pressure Die Casting
Amaan Zahid Chaudhry; Doniv Joseph Vinod; Lekhya Sree Akella; Kyra Li; Savir Rajeshwar Patil; Shlok Tandon; Vishwa Mohan Surabhi; Mason Nicholas Arnoldy; Margaret Ann Betz; Bryce Castle**
- 110**
EPICS
Live Like Lou Assistive Technology
Supalerk Chularojmontri; Alan Brandon Arispe; Peter Rafael Astarbi; Yi-Lien Chen; Steven Chen; Rohan Haldankar; Muhammed Qaanith Kamal; Celine Lu; Mixuan Pan; Robert Henry Smith; Siddarth Velnati; Ethan Yang; Kevin T Lee; Garvit Agarwal**
- 111**
VIP
Simple Synth
*Luke Charles Crummett; Tsz Pui Jiang; Jacob Tyler Renta; Ojus Giri; Hao-Chen Li; Steve Clayton Rausch**
- 112**
EPICS
Indiana School For the Blind and Visually Impaired
*Junbin Cui; Kyle Richard Ding; Andrew Joseph Hruskocy; Sami Iqbal; Abigail Prathika Jebaraj; Ilana Jhirad; Zechariah Jones; Ju En Kim; Seongho Lee; Abdullah Mohamed; Moyinoluwa Samuel Ojerinde; Angelina C Powell; Ibrahim A Riazi; Sachidanand Sreeraj; Sydney Gorman Hillan**
- 113**
EPICS
SAFETY Project
Colton Ray Davis; Jacob Mathew Smith; Catherine Mae Bowen; Alexandra Lauren McKoy; Kingen Eli Burbrink; Nadia Persis Rixner; Charles Holliday Jenckes; MohammadHossein Jamshidnejad**
- 114**
The Data Mine
Corteva Database and LLM Analysis of Crop Protection Product Labels and SDSs
Sameeksha Sekhar Desai; Jason Chan; Jay Vatti; Lakshya Chaudhry; Nandika Yadav; Nicholas Alexander Loyd; Srیمان V Donthireddi; Anh Khoa Duc Nguyen; Margaret Ann Betz; Bryce Castle**
- 115**
EPICS
Indiana State Museum
*Caiden A Diaz; Scott F Dukes; Nickolas Anthony Frascone; Aidan Joseph Ghosh; Joseph Andres Gonzalez; Jacob Henry Rikkola; Ayden Matthew Rosencranz; Aarav Singh; Colin S Ternus; Charles Holliday Jenckes**
- 116**
Motorsports Engineering Capstone
Bridging the Performance Gap for Females in Motorsport
*Nathaniel Loewito Elijanto; Kyle Prakash Gyawali; Carter John Kunding; Andres Tovar**
- 117**
EPICS
Cathedral High School
*Owen Jacques Friedman; Kinser Earle Maners; Alexander R Morales; Moustafa Elsayed Abdelsamad; Patrick Corey Gee**
- 118**
EPICS
India 3 EPICS Team
*Shay H Hardsaw; Trinity I'Shae Houston; Andrew Oscar Kahn; Faysal Olakunle Kasim; Soterios Steven Koukios; Khoa Dinh Dang Tran; Sydney Gorman Hillan**
- 119**
EPICS
India 1: Developing a Prosthetic arm for Brain-Computer Interface Studies
Jonathan Steven Hickie; Erik William Schneider; John Richard Cox; Meyan Ketan; William Edward Dietsch; Aadi Bhattacharya; Michelle Katrin Novoselova; Ahana Roy Chaudhury; Richard James Buchanan; Valerie Wingsee Cheang; Nicholas Andrew Ostavnenko; Charles Holliday Jenckes; Ramaa Saket Suri**
- 120**
EPICS
Engineers Without Borders
Hailey Elizabeth Holstein; Ryan Khoury; Tilak Chandrakant Gondalia; Karen Denise Alfrey; Jenna Suzanne Carter**
- 121**
VIP
Calculator with addition and subtraction capabilities.
Jason Zhengxuan Huang; YuKuan Lu; Aaditi Anupam Vaval; Eric Chase Williams; Matthew D Samuel; Roni H Aziz; Steve Clayton Rausch; Mark Johnson**

122 EPICS	Habitat for Humanity <i>Shani H Hui; Ethan Michael Elliott; Hunter James Rutledge; Lakota Storm Robbins; Michelle S Ulmer*; Kevin T Lee*; Garvit Agarwal*</i>
123 The Data Mine	Allison Transmission - Final Test Stand Warranty Correlation <i>Lina Im; Justin Azanli; Angad Singh; Dhruv Raj Patel; Jorge Antonio Jimenez; Margaret Ann Betz*; Bryce Castle*</i>
124 EPICS	Shafer Data Transfer Team <i>Karan Rahul Karkhanis; Matthew Van Conner; Mason Lee Morgan; Isabelle Anne Hunt; Sophia Yixuan Lu; Ian D Morris; Sydney Gorman Hillan*</i>
125 EPICS	India 2 <i>Woojung Kim; Roman Theodore Vander Zwart; Dylan Joseph White; Aakanksha Desai*</i>
126 EPICS	Junior Achievement BizTown <i>Neel Kothari; Daniel Alexander Garcia; Ian Alexander Slowinski; Andrew Theisen; Madeline Hae Kyung Kim; Prithvijit Dutta; Mathew Michael Drenning; Jeffrey Zhang; Peter Osire Orono*; Sai Abhishikth Somishetty*</i>
127 EPICS	Purdue HAIN <i>Milo Orson Lamas; Kevin Dong; Colin Robert Eddington; Austin James Henson; Noah Scott Hindley; Daniel Junsik Kim; Mia Rae Laskiewicz; Darrick Khoi Le; Manan Pahwa; William Zachary Rowen; Koichiro Saito; Carlo Juan Salenda; Ashaz Adil Shaikh; Michael Shearer; Mantavya Vashishth; Steve Clayton Rausch*</i>
128 The Data Mine	Projecting Future Delta Faucet Product Contacts and Defects <i>Kelci Maire Malloy; Claire Mari Johnson; Luis Santiago Mendez Perez; Aahan Ritesh Patel; Anand Shanker; Om Shrikanth Janamanchi; Shreya Samiksha Baral; Mixuan Pan; Frederick Gengyu Lu; Margaret Ann Betz*; Bryce Castle*</i>
129 The Data Mine	AI-Driven Patent Data Extraction and Analysis for Agricultural Patents <i>Srishti Maurya; Thanh Dat Le; Urjit Aich; Seshanth Karthik; Lina Im; Sidarth Nuthi; Bach Gia Le; Shivan Dipakkumar Pandya; Anna Bajszczak; Margaret Ann Betz*; Bryce Castle*</i>
130 EPICS	Forced Induction Group <i>Akaash J Mondal; Safa Islam; James McAlindon; Fred Kadima; Xiaoyang Yu; Charles Holliday Jenckes*; MohammadHossein Jamshidnejad*</i>
131 First Time Researcher Fellowship	Effect of Temporal Bone Quality Changes in Progressive Chronic Kidney Disease <i>Ishita Mukadam; Rachel Kathleen Surowiec*</i>
132 VIP	Extend Battery Life - Alle-IoT <i>Hang Minh Nguyen; Kaitlyn Hope Isaak; Kunaal Parashar; Jonathan Ka-Wing Chan; Antonio C De Oliveira Segura; Jan-Lun Chang; Sachenka Katrina Angel Aranguena; Stephanie Allissa Chau; Steve Clayton Rausch*; Rama Harika Nanduri*</i>
133 The Data Mine	Detection of Digital Fraud for Elevance Health <i>Sarah Jessica O Farril-Gonzalez; Sriya N Chakravarthula; Aditya sanjay Pawar; Raynad Chishty; Landon Mitchell Berger; Anna Bajszczak; Bozidar Perovic; Nithil Krishnaraj; Abha Anilkumar Gupta; Vishal Subramani Ramasubramanian; Margaret Ann Betz*; Bryce Castle*</i>
134 The Data Mine	Player Archotyping & Evaluation <i>Eniola Vikky Owolabi; Jasper Leeron Basir; Maninder Kaur; Thirukumaran Veleyudham; Gregory K Harner; Jermaine Leebron Basir; Prem Dilipkumar Patel; Margaret Ann Betz*; Bryce Castle*</i>
135 The Data Mine	Allison Transmission Vehicle Clustering Project <i>Sevinch Pasilova; Victor Vladimirovich Voznyuk; Abhinav Kotamreddy; Kashyap Vallur; Chanh Ly; Nathan T Fecadu; Aman Ibrahim Ali; Younes Y Aref; Omar M Ibrahim; Pragun Sethi; Parshawn Ta-xiyah Jamil Haynes; Badr A Ramadan; Margaret Ann Betz*; Bryce Castle*</i>

- 136** Design of a Record-Breaking Gas Lakester Drag Racer for Top Speed and Overall Performance
Motorsports Engineering Capstone
*Cade Evan Pell; Scott Alan Lohman; Tyler J Hagan; Reed Emory England; Andres Tovar**
- 137** LLM Maintenance Troubleshooter
The Data Mine
Reva Arlene Pettigrew; Ashish Kumar Kashyap; Sankhya Ganesh; Neelay Ranjan; Ptolemy Bryce Henson; Fetume G Teklu; Anuj Nirav Shah; Yassir Khalaf; Shreyas Sreenath; Margaret Ann Betz; Bryce Castle**
- 138** Voltage Activated Slide Separator
VIP
Ashwin Srisai Pulla; Tamara Shakri Houran; Afshin Izadian; Christine Taylor*; Fateme Karimi Hafshejani**
- 139** Family Ark
EPICS
Carson Xavier D Mello; Chelsie Drew Rayl; Aksh Aggarwal; Amir Mohammad Abdelhadi AlBustanji; Brenden Jason Fannin; Joseph Giglio; Matthew Lawrence Harney; Adam Earl Joy; Kanishk Maheshwari; Levi Joshua Smith; Biak Tin Sum; Isabela Tassone Haddad; Draven Michael Vaughn; Arun Vudi; Kevin T Lee; Ramaa Saket Suri**
- 140** Thermoplastic Starch Filament Production for Additive Manufacturing
*Joshua Glen Renshaw; Andres Tovar**
- 141** Our Lady of Grace Community Garden
EPICS
Vincent George Romand-Heuyer; Kade Stephen McPherson; Samuel Evan Harpham; Wen Ling See; George Rares Nicolau; Myles Joshua Pristin Querimit; Mohammad Raiyan Ashraf; Angie Allison Vazquez; Udan Ranmika Nimalasena; Navin Gopinath; Taylor A Smith; Peiyuan Yu; Michelle S Ulmer; Suchandra Teja Torlakonda**
- 142** Elevance Health: Abnormalities & Outliers - Detecting Abnormalities in Log Data
The Data Mine
Edwin Antonio Sanchez; Harshita Pasupuleti; Taemoor Hasan; Faiza Bashir Mukhtar; Alex Douglas Stephen Veal; Minh Triet Vu; Margaret Ann Betz; Bryce Castle**
- 143** A systematic study on the effect of different carbon precursors for the synthesis of MAX and two-dimensional MXenes
NEIL Scholars
Christian Paul Hardy Scott; Babak Anasori; Anupma Thakur*; Nithin Chandran Balachandran Sajitha**
- 144** Synthesis, structural and protein binding analysis of differently substituted Ru(II)-hydrazine complexes
*Milica Slavkovic; Michael Humes Borkowski**
- 145** Low-temperature growth of multi-principle element 2D carbides from heterostructure thin-films
NEIL Scholars
John Ryan Waggle; Babak Anasori; Brian Cecil Wyatt**



SESSION 2

1:30 p.m. to 3:00 p.m. | Campus Center, Room 450

Posters sorted by first author's last name each session.

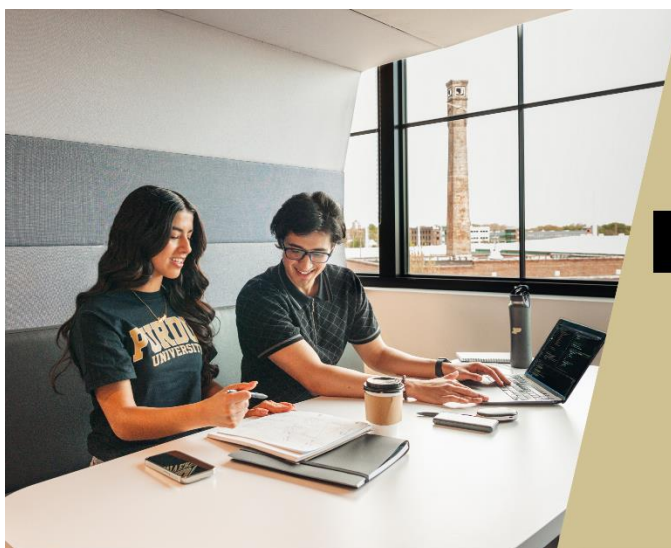
Only presenting authors and mentors () are listed. Contributing authors and acknowledgements are listed in the abstract book online.*

- 200** Mechanotransduction in progerin-expressing endothelial cells
First Time Researcher Fellowship *Laila Abdelwahab; Julie Ying Hui Ji*; Sungsoo Na**
- 201** Boys and Girls Club Wheeler Dowe
EPICS *Teresa Britton Abraham; Jack Edward Bobek McLachlan; Nolan Larsa Sanouvong; Alejandro Caballero-Julian; Nuthawat Rojratchadakorn; Jimmy Ramirez; Grant Isaac Hutchison; Connor Maddox Seagrave; Arabella Fortunato Hofrichter; Andrew Alex Soldatov; Oscar E Druxman; Aakanksha Desai*; Shubham Kapil Upadhyay**
- 202** Alle-IoT
VIP *Bader Emad Abu-Shanab; Danielle May Hatt; Caleb Jaramillo Bonham; Carter Joseph Christie; Toby Dwayne George; Muhammad Irfan Bin Khairuddin; Bekhruza Mamajonova; Jin Park; Adam Zikry Mohd Shahrizan; Steve Clayton Rausch*; Arvind Krishna Radhakrishnan**
- 203** Enhancing Farmer Access to Agricultural Programs in Indiana
The Data Mine *Raja Allmdar Tariq Ali; Adwin Sujin; Alexia Isabella del Cuvillo; Dhiren T Rao; Emily Zhongqing Zheng; Eric Tang; Richin Mrudul; Sai Amruta Varshini Killampalli; Victor Popescu; Margaret Ann Betz*; Bryce Castle**
- 204** Automated Spark-Based Data Filtering Tool for Trip Qualification
The Data Mine *Raja Allmdar Tariq Ali; Vishal Wagh; Avanish Jayarama Mallya; Hana Zoaib; Jazmin Pulido; Muhammad Ahmad Rizwan; Ping-Chun Tsou; Prisha Singh; Vihaan Pradeep; Margaret Ann Betz*; Bryce Castle**
- 205** Acrylic Redesign for Rat Enclosures
VIP *Gavin Allen Arner; Zachary Gosnell; Elliott Samuel Korentager; Cohen Scott Meredith; Pralhad Prashant Mundargi; Gavin Wang; Aditi R Hemmige; Ken Yoshida*; Mahdi Ghanati**
- 206** Controlled Electrostatics of lipid membranes
NEIL Scholars *Chinwendu Zachariah Ayogu; Mohamed Razi Nalim**
- 207** AI applications in marine navigation
VIP *Nishant Ramashankar Bhargava; Adrienne Dale Torres Balahadia; Cassandra Lobo Gonzalez; Partha Rath; Eeshwar Ram Chalasani; Ihenna Nathan Anoliefo; Rikhil Tadiparthi; Kevin T Lee**
- 208** Wearable System for Tracking Stroke Rehabilitation Progress
VIP *Samarth Bhat; Nicholas John Albrecht; Pratika Kumar; Taran Reddy Kamireddy; Ken Yoshida*; Steve Higbee**
- 209** Drop Tower Device for Investigating Biological Response From Mouse Intervertebral Disc Injury
Phillip John Bock; Shagunpreet Kaur; Benjamin Allen Romig; Gavin Michael Strickland; Sharon J Miller; Diane Wagner*; Steve Higbee*; Olivia Nicole White**

210 VIP	Simple Synthesizer <i>Nolan Douglas Brown; Abhijeet Vijay Mohod; Grayson Dean Gibson; Michael Brayden Hudson; Aditya Hegde; Steve Clayton Rausch*</i>
211	Dynamic Spondylolisthesis Model for Patient Education <i>Gavin L Burtch; Katelynn Rose Gallagher; Kelci Maire Malloy; Logan C Schomaker; Sharon J Miller*; Steve Higbee*</i>
212 The Data Mine	Data Driven Defect Analysis in High Pressure Die Casting <i>Amaan Zahid Chaudhry; Doniv Joseph Vinod; Lekhya Sree Akella; Kyra Li; Savir Rajeshwar Patil; Shlok Tandon; Vishwa Mohan Surabhi; Mason Nicholas Arnoldy; Margaret Ann Betz*; Bryce Castle*</i>
213 First Time Researcher Fellowship	Uncovering spatial temporal bone quality changes in progressive chronic kidney disease: Is water a new biomarker for fracture risk? <i>Aurelia Azifa Chelfannisa; Rachel Kathleen Surowiec*</i>
214 The Data Mine	Corteva Database and LLM Analysis of Crop Protection Product Labels and SDSs <i>Sameeksha Sekhar Desai; Jason Chan; Jay Vatti; Lakshya Chaudhry; Nandika Yadav; Nicholas Alexander Loyd; Sriman V Donthireddi; Anh Khoa Duc Nguyen; Margaret Ann Betz*; Bryce Castle*</i>
215 EPICS	CED Inline 4 Engine display <i>Yousef Tarek Morsey Elarabi; Dillon Michael Smitherman; Steve Clayton Rausch*</i>
216 EPICS	ME Outreach <i>Ryan Faraji; Ethan Alexander Sutherlin; Ellenah Jaye Del Rio; Lauren Riley Kinsman; Peter Osire Orono*; MohammadHosseini Jamshidnejad*</i>
217	Evaluating Material Capabilities Using Open-Source Binder Inkjet 3D Printer <i>Andrew James Gillespie; Jing Zhang*</i>
218 Motorsports Engineering Capstone	NASCAR Rear Bumper Structure Crashworthiness Design and Optimization <i>Alexander Jeffrey Grey; Teague Kingsley Walters; Jonah Vadim Hanrahan; Andres Tovar*</i>
219 First Time Researcher Fellowship	Machine Learning driven characterization of thermal conductivity in materials <i>Jonathan Steven Hickie; Krutarth Hemant Khot*; Xiulin Ruan*</i>
220 The Data Mine	Allison Transmission - Final Test Stand Warranty Correlation <i>Lina Im; Justin Azanli; Angad Singh; Dhruv Raj Patel; Jorge Antonio Jimenez; Margaret Ann Betz*; Bryce Castle*</i>
221 First Time Researcher Fellowship	Visualizing mechanotransduction of subcellular metabolic signaling in progerin-expressing endothelial cells <i>Karan Rahul Karkhanis; Sungsoo Na*</i>
222 The Data Mine	Projecting Future Delta Faucet Product Contacts and Defects <i>Kelci Maire Malloy; Claire Mari Johnson; Luis Santiago Mendez Perez; Aahan Ritesh Patel; Anand Shanker; Om Shrikanth Janamanchi; Shreya Samiksha Baral; Mixuan Pan; Frederick Gengyu Lu; Margaret Ann Betz*; Bryce Castle*</i>
223	NeoPace Adaptor: Development of a Unipolar Adapter for Medtronic's Micra™ Pacemaker to Enable Implantation in the Smallest Pediatric Patients <i>Caleb Benjamin Manring; Anna Christine Schroeder; Pearl-marie M Andoh; Makenzie Leigh Sheehan; Sharon J Miller*; Steve Higbee*; Olivia Nicole White*</i>

- 224** AI-Driven Patent Data Extraction and Analysis for Agricultural Patents
The Data Mine
Srishti Maurya; Thanh Dat Le; Bach Gia Le; Seshanth Karthik; Urjit Aich; Sidarth Nuthi; Lina Im; Shivan Dipakkumar Pandya; Anna Bajszczak; Margaret Ann Betz; Bryce Castle**
- 225** Indianapolis Zoo
EPICS
Courtney Angela McHale; Ravi John Pillai; Jesse Najera; Jonathan Nathaniel Clinton; Calvin Nathaniel Spaulding; Rylan Jacob Keith; Harrison Lee Fitch; Avary Marie Furlong; Jayden Pearl Jarmon; Zuriel Vazquez; Cole Matthew Burger; Jasen Michal McPartlan; William Ralph Simmons; Zachary Ray Ferguson; Andrew Aurin Tomaschke; Beata Nicole Johnson*; Suchandra Teja Torlakonda**
- 226** DIY Nitrous Oxide Rocket
*Jacob Metcalf; Luke Yen; Michelle S Ulmer**
- 227** TieTech - Surgical Methods Practice and Assessment Device
Renee Chantal El Miller; Zachary Knauss; Alexis Jo Whittinger; Geoffrey Lee VanSickle; Sharon J Miller; Steve Higbee**
- 228** CHEQI
EPICS
Anastasia Marie Musson; Ian Jacob Castro; Esteban Tomas Felix Moran; Abdulla Muhammad Asif Galsulkar; Anthony L Garibay; Jaden Donghoon Ko; Ferdinand Ebo Koranteng-Barnes; Joseph Michael La Polla; Jayden Gabriel Magno; Mabrey Blair Manning; Jake Creschael Rodriguez-Ashe; Grayson Brody Stahl; Patrick Corey Gee; Ashay Uday Berde**
- 229** Motorsports Outreach
EPICS
Robert Steven Norris; Josiah Elijah Acosta; Andrew Noble Byers; Gabriel Kosma Morali; Eubene Ethan In; Jackson Casey Poer; Johnathan Lee; Sonja Barbara Lemke; Luke Gerard Okonsky; Matthew Thomas Lucas; Moussa John Miller; Mohammed Samin Ullah Miyan; Ian Edward Morrison; Olivia Kay Timm; August Luke Peters; Jason Bricknell Sloan; Simon Thaddeus Milligan; Kelly Song; Nilay Thakkar; Jonah Dammes van Antwerpen; Noah Richard Walden; Zachary Baten; Charles Holliday Jenckes; Karen Denise Alfrey*; Jorge L Martinez**
- 230** Detection of Digital Fraud for Elevance Health
The Data Mine
Sarah Jessica O Farril-Gonzalez; Sriya N Chakravarthula; Aditya sanjay Pawar; Raynad Chishty; Landon Mitchell Berger; Anna Bajszczak; Bozidar Perovic; Nithil Krishnaraj; Abha Anilkumar Gupta; Vishal Subramani Ramasubramanian; Margaret Ann Betz; Bryce Castle**
- 231** Player Archotyping & Evaluation
The Data Mine
Eniola Vikky Owolabi; Jasper Leeron Basir; Maninder Kaur; Thirukumaran Veleyudham; Gregory K Harner; Jermaine Leebron Basir; Prem Dilipkumar Patel; Margaret Ann Betz; Bryce Castle**
- 232** Allison Transmission Vehicle Clustering Project
The Data Mine
Sevinch Pasilova; Badr A Ramadan; Victor Vladimirovich Voznyuk; Abhinav Kotamreddy; Kashyap Vallur; Chanh Ly; Nathan T Fecadu; Omar M Ibrahim; Younes Y Aref; Aman Ibrahim Ali; Pragun Sethi; Parshawn Ta-xiyah Jamil Haynes; Margaret Ann Betz; Bryce Castle**
- 233** Simple Synthesizer
VIP
Rudra Vimlesh Patel; Alexander Marcus Krapels; Madilyn Grace Shingle; Yutong Wu; Cole Allen Hufford; Jack Brian Cramer; Steve Clayton Rausch; Arvind Krishna Radhakrishnan**
- 234** ECE
EPICS
*Agastya Patel; Soumik Chaki; Oluwadara Lagbaja; Jack Dennis Moe; Owen Casimir Zuranski; Aakanksha Desai**
- 235** ECHO - ISD Indy
EPICS
*Krish A Patel; Blythe Anne-Louise Richardson; Umberto Maria Puddu; Risa Charvi Metta; Aakanksha Desai**
- 236** Inline 6 CED
EPICS
*Diego Alfonso Perez; Aiden Jake Stankiewicz; Shaun Alexander Conner; Amine El Hamma; Steve Clayton Rausch**

- 237**
EPICS
Peace Learning Center
Nikolas Perry; Ethan Cash Rayles; Luke Yen; Ethan Michael Elliott; Sarah Eileen Kaufman; Hunter James Rutledge; Lakota Storm Robbins; Shani H Hui; Michelle S Ulmer; Garvit Agarwal*; Kevin T Lee**
- 238**
The Data Mine
LLM Maintenance Troubleshooter
Reva Arlene Pettigrew; Ashish Kumar Kashyap; Sankhya Ganesh; Neelay Ranjan; Yassir Khalaf; Ptolemy Bryce Henson; Fetume G Teklu; Anuj Nirav Shah; Shreyas Sreenath; Margaret Ann Betz; Bryce Castle**
- 239**
EPICS
India 5 - Automatic Paneer Machine
Soham Amol Purav; Amar Nath Gollamudi; John Philip Pretzler; Steve Clayton Rausch; Sai Abhishikth Somishetty**
- 240**
EPICS
India 5 - Brick By Brick
*Megan Elizabeth Raupp; Karla Bravo; Whitney Fung; Steve Clayton Rausch**
- 241**
First Time Researcher Fellowship
Testing the Longevity of Electrode Coatings Through Accelerated Aging
Ayden Matthew Rosencranz; Ken Yoshida; Babak Anasori**
- 242**
The Data Mine
Elevance Health: Abnormalities & Outliers - Detecting Abnormalities in Log Data
Edwin Antonio Sanchez; Harshita Pasupuleti; Taemoor Hasan; Faiza Bashir Mukhtar; Alex Douglas Stephen Veal; Minh Triet Vu; Margaret Ann Betz; Bryce Castle**
- 243**
EPICS
International School of Indiana
Trinav Singh; Helen J Caceres; Samuel Yucel Ercan; William Rafael Fisher; Zarah Myemuna Masud; Ian Jeffrey Rash; Iker Rodriguez; Akram S Quol; Miles Deshawn Norfleet; Michelle S Ulmer; Suchandra Teja Torlakonda**
- 244**
EPICS
FWM
Jon Talka; Gustavo Solano Ortiz; Ian Michael Kurdelak; Ashlin Thomas LNU; Tyson Maxwell Jones; Aakanksha Desai; Shubham Kapil Upadhyay**
- 245**
Motorsports Engineering Capstone
Formula Ford Aerodynamics
Jack C Weron; Dean Michael Ahrens; Andres Tovar; Christopher Edward Finch**
- 246**
EPICS
Engineering Outreach Program with The Children
Sharaya Lynn Wolfe; Varshetha Senthilkumar; Isabel Sofia Cifuentes; Natalia Regina Figueroa; Ovia Muthu; Beata Nicole Johnson; Nirmala Priyanka Manthripragada**
- 247**
EPICS
Kurt Vonnegut Museum & Library
*Oryon Julio Zaragoza; Sera XiaoSheng McClain; Mahathi Adivi; Vindhya Mahapatruni Ganti; Jeerapat Suanthong; Georg William Dingleddy; Michael Han; Edward Shao; Aakanksha Desai**



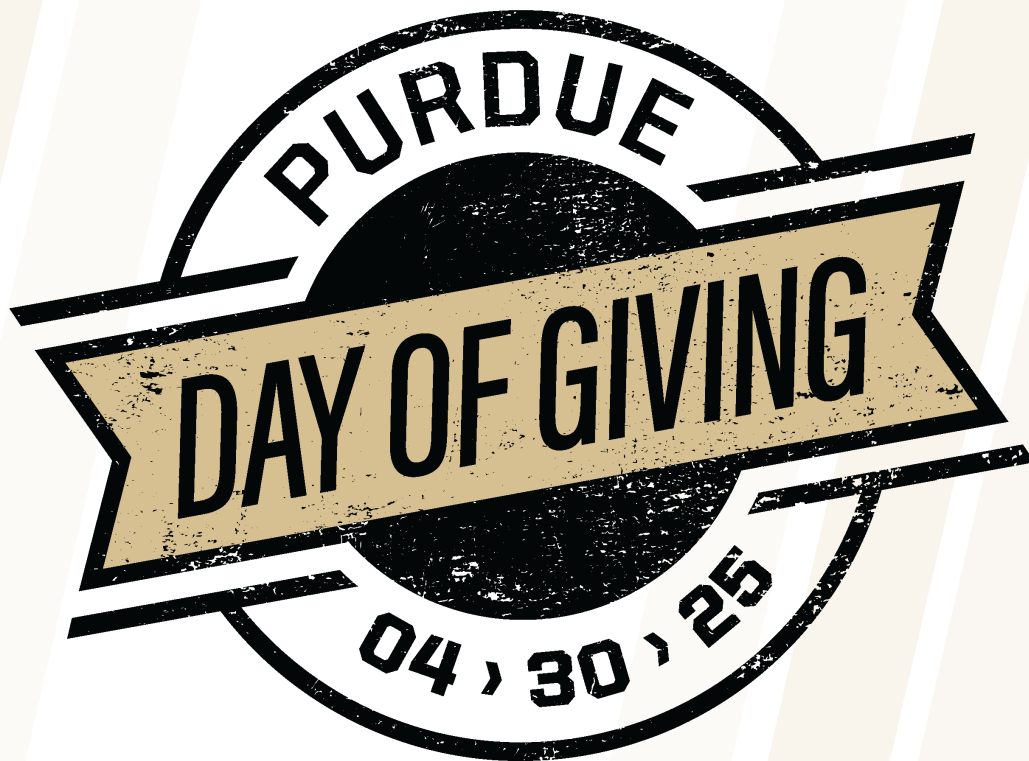
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PROUDEST "ALL HAIL" YET!**



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SHOWCASE NOTES

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EPICS

Office of Undergraduate Research

John Martinson Honors College

The Data Mine

Office of Experiential Education

Vertically Integrated Projects

*The planning committee extends special appreciation to **Morgan Roberts** and **Charlène Hammer** for their graphic design contributions for the Showcase.*

**SCAN FOR THE
ABSTRACT BOOK**

