

# Ryland J. Zimany

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| <b>OBJECTIVE</b>                    | Mechanical Engineering student seeking a Summer 2027 internship to apply CAD, hands-on fabrication, and electromechanical systems experience to real-world engineering problems.                                                                                                                                                                                                                                                                                            |                        |
| <b>EDUCATION</b>                    | Bachelor of Science in Mechanical Engineering<br><br>Pennsylvania State University, University Park, PA<br>Anticipated Graduation: May 2028<br><b>Relevant Courses</b><br><br>Engineering Design • Strength of Materials • Dynamics • Thermodynamics<br>Computational Tools • Circuits, Instruments & Statistics • Vibrations & Mechanical Systems • Engineering Materials                                                                                                  |                        |
| <b>ENGINEERING EXPERIENCE</b>       | <b>Nittany Motorsports Team Member</b><br>Pennsylvania State University                                                                                                                                                                                                                                                                                                                                                                                                     | January 2025 - Current |
|                                     | <ul style="list-style-type: none"><li>• Assist with CAD modeling and design of chassis components using Fusion 360</li><li>• Fabricated carbon fiber plates for chassis using composite layup techniques</li><li>• Apply concepts from strength of materials and statics to evaluate structural integrity</li><li>• Participate in design reviews and collaborate with suspension, powertrain, and other sub teams</li></ul>                                                |                        |
|                                     | <b>Colby Research Group: Stringimeter Development</b><br>Pennsylvania State University                                                                                                                                                                                                                                                                                                                                                                                      | Dec 2025 - Current     |
|                                     | <ul style="list-style-type: none"><li>• Fabricated and assembled a modular extensional rheometer for approximately \$300 using 3D printing, resin molding, and commercial components, compared with \$20,000+ commercial systems.</li><li>• Integrated Arduino-based controls with mechanical and electronic components.</li><li>• Collaborated with rheologists and researchers from non-mechanical disciplines to fabricate, test, and troubleshoot the system.</li></ul> |                        |
| <b>TECHNICAL SKILLS</b>             | <b>CAD &amp; Design:</b> Fusion 360 • SolidWorks • AutoCAD<br><b>Programming &amp; Analysis:</b> Python • MATLAB • Java                                                                                                                                                                                                                                                                                                                                                     |                        |
| <b>LEADERSHIP &amp; INVOLVEMENT</b> | Captain, EMS Soccer                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2026                   |
|                                     | Member, American Society of Mechanical Engineers (ASME)                                                                                                                                                                                                                                                                                                                                                                                                                     | 2024-2026              |
|                                     | Exposition Manager, The Cage Cocktail Bar                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2022-2025              |
| <b>HONORS</b>                       | Recipient, Boy Scouts of America Eagle Award (2023)<br>Finalist, Science Mathematics and Research for Transformation Scholarship (2025)<br>6 Time Recipient, President's Volunteer Service Gold Award (2018-2024)                                                                                                                                                                                                                                                           |                        |