



SOUTH
DAKOTA
MINES



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DAKOTA
MINES

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Making a better world—one design at a time.

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SOUTH
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MINES

PRODUCT DESIGN AND DEVELOPMENT

PROJECT-BASED LEARNING
MECHANICAL ENGINEERING PROGRAM



DRIFT TRIKE



COASTERS



ZOO



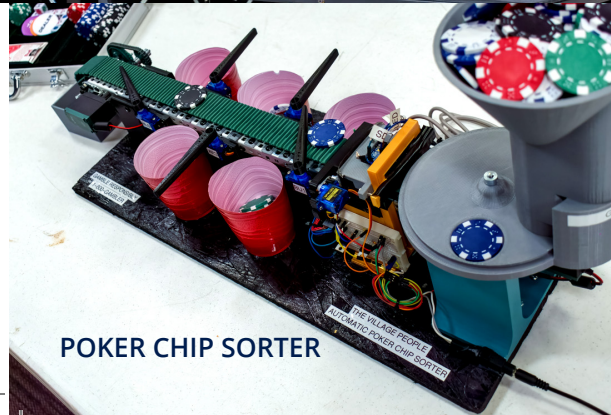
AERO LAB



BeethoVAN



POOL TABLE



POKER CHIP SORTER



PINBALL

THE “ME” DIFFERENCE AT SOUTH DAKOTA MINES

The South Dakota Mines Department of Mechanical Engineering offers a cohesive project-based learning curriculum. But unlike many universities, we have a comprehensive training program that ensures student safety and the opportunity to learn regardless of previous experience. Students will train in traditional “hands on” processes and “hands off” computer-based fabrication.

Students develop their own projects to maximize student interest, ownership and motivation. This includes project-based coursework, extracurricular teams within the Center of Excellence for Advanced Multidisciplinary Projects (CAMP), VEX U Robotics, and Students for the Exploration and Development of Space (SEDS), as well as student-generated non-academic projects. The goal is to help students develop key “concurrent design” skills, including process planning, resource planning, material selection, cost analysis, Computer-Aided Design (CAD), Computer Aided Manufacturing (CAM), Geometric Dimension and Tolerance (GD&T), mechatronics, robotics, coding, rapid prototyping, ideation and project management through student design, fabrication and testing. We maximize student effort by allowing students the freedom to choose their project.



ENERGY STORAGE LAB