LAST YEAR’S RESULTS

MARYLAND
OVERALL: 34 OF 89
ENDURANCE: 39 OF 94
DESIGN: 27 OF 93
HILL CLimb: 33 OF 79

KANSAS
OVERALL: 32 OF 95
ENDURANCE: 14 OF 95
DESIGN: 34 OF 95
SALES: 17 OF 89

OREGON
OVERALL: 28 OF 98
ENDURANCE: 45 OF 97
DESIGN: 23 OF 97
ROCK CRAWL: 10 OF 78

WHAT WE DID AND LESSONS LEARNED

WHAT WE DID
• Improving sales presentation and utilizing binders for design presentation
• Increase driver training time
• Revealing Roamer at Engineering Open House allowed us to acquire more test results before competition season

LESSONS LEARNED
• Risks should be managed and have back up plans
• Continue to utilize the engine dyno to improve drivetrain performance
• Continue to practice data-driven design for better results

SEASON HIGHLIGHTS
• Top 10 in Rock Crawl at Baja Oregon
• Overall competition place almost doubled from previous year
• Revealing a driving car for Engineering Open House
TO OUR SPONSORS

The Off-Road Illini team is extremely grateful for all the generosity and support of our wonderful sponsors. Your help is what allows us to continually grow as a team and compete with some of the best teams in the nation. The support you provide helps foster the growth of the next generation of talented automotive engineers from the University of Illinois.

Thank you!!!

CLASS OF 2018 - WHERE ARE THEY NOW?

**Jenna Leane** - 2017/18 Team Captain
*General Motors TRACK rotation program*
Jenna’s favorite memory is Roamer finishing rock crawl in Oregon.

**Andy Kopplin** - 2017/18 Chief Engineer
*DMC Systems Engineer*
Andy’s favorite memory is Roamer finishing 14th in endurance at Baja Kansas.

**Mario Lopez** - Anti-Roll Bar
*Eaton Corporation Field Engineer*
Mario’s favorite part of Roamer’s season was how his project (ARB) helped Roamer steer. He enjoyed any time we did something to the car and it improved.

**Becky Cole** - 2017/18 President
*Rockwell Collins Reliability Engineer (Commercial Systems)*
Becky’s favorite memory is finishing endurance at Baja Kansas. Becky said, “As a team, it took a lot of effort to accomplish finishing a race, it was incredible.”

**Joe Kraemer** - Drivetrain Lead
*DMC Systems Engineer*
Joe’s favorite memory is when the team kayaked down a hill at alumni Bob Donahue’s cabin.

**Brittany Poppin** - Frame Lead
*Ford Chassis Product Development Engineer (FCG Program)*
Brittany’s favorite parts of last season were passing tech on the first try at Maryland and spending time with her sub-team. Brittany said, “My favorite part of last year was seeing my sub-team develop and grow as I helped them work through challenging projects.”

**Dylan McGregor** - CVT Tuning
*SpaceX Propulsion Design Engineer*
Dylan’s favorite moment was the first time Roamer drove.

**Danny Deimel** - Suspension
*Navistar Product Development Engineer*
Danny’s favorite moment was seeing Roamer finish 14th in endurance at Baja Kansas.

MEET THE DRIVERS

**MILOS POPOVIC ‘20**
Milos is our driver for the rock crawl, suspension, and alternate for endurance events at competitions. He says he drives because he “really enjoys representing his team and university and showing off our hard work from the year”. Being a driver is more than showing off the car, though; “I think the most important part of driving is recognizing problems and learning from them,” Milos says. After experiencing competition driving, he is ready for a new season!

**JOE SCHAEFER ‘19**
Joe is our driver for the maneuverability event and main driver for endurance. After the competitions this season, he “would like to see himself drive more confidently in the dynamic events” because this year he felt he “didn’t drive to his fullest because he was unsure of the car’s capabilities.” This year Joe is excited get more practice driving Roamer and preparing Milos to take over after he graduates this spring.
WHAT’S NEXT?

PERFORMANCE GOALS FOR 2018-2019

• Improve acceleration time by 5%
• Spend less than one hour total in the pits between all three competitions
• Increase top speed by 5 mph

TEAM GOALS FOR 2018-2019

• Validate manufactured parts early to allow time for adjustments
• Familiarize every team member with tech inspection documents to ensure overall team depth of understanding
• Improve meeting efficiency by planning meeting agendas and shop day itineraries

HOW WE PLAN TO ACHIEVE OUR GOALS

• Reduce weight by 35 pounds
• Validate designs by testing to failure

WHAT ROAMER TAUGHT US

• Steering symmetry should be fixed early
• Test during design process in order to draw numerical conclusions early

MEET BAJA LEADERSHIP

CHIEF ENGINEER

JOSH ROSENTHAL ’20

FOCUS: CVT Tuning
HOMETOWN: Barrington, IL
CONTACT: jtr3@illinois.edu

TEAM CAPTAIN

ADAM SCHMITT ’19

FOCUS: Gear Box
HOMETOWN: Stafford, VA
CONTACT: daschmi2@illinois.edu

PRESIDENT

KEIRA FRESE ’20

FOCUS: Anti-Roll Bar
HOMETOWN: Western Springs, IL
CONTACT: frese2@illinois.edu

SUB-TEAM LEADS

SUSPENSION LEAD: MILOS POPOVIC ’20
DRIVETRAIN LEAD: MEGIN BUDACKI ’20
CHASSIS LEADS: STEFANIE ANDERSON ’20 & VERONICA HOLLOWAY ’20
ELECTRONICS LEAD: NICK TUCZAK ’19

MORE LEADERS

GRAHAM MCLAGAN ’19 - FRAME DESIGN
JOE SCHAFFER ’19 - SUSPENSION POINTS
MARcin SOBAS ’20 - BRAKES

TEAM EMAIL: offroadillini@gmail.com