

# Ethics in Engineering Case Competition

## *Getting Ready for 2023*

The 6th Annual Ethics in Engineering Case Competition will be held February 28 – March 2, 2023, at the Center for Leadership Excellence on the Lockheed Martin Headquarters campus in Bethesda, Maryland.

### Lockheed Martin's Commitment to Future Engineers

Colleges and universities, each represented by a two-student undergraduate team and accompanying faculty advisor, present their solutions to a fictional case involving ethical, business and engineering issues.

In addition to the hands-on opportunities for students to learn about the company and its technologies, the annual event compels students to think about the importance of ethics in the workplace. The Competition focuses on real-life dilemmas that can arise in the workplace, especially in the multifaceted and fast-paced world of technology.

The case competition is just one example of how Lockheed Martin demonstrates the importance of voicing one's values in the face of intricate ethical dilemmas in the engineering and business spheres.



### Why We Hold the Competition

When it comes to business and technology, ethics awareness is a good investment. In today's highly competitive marketplace, ethics plays a major role in business decision-making where a single misstep in judgment can have consequences across the enterprise. Integrity is so vital to our business that we want students to be thinking seriously about ethics before they enter the workforce – especially in the increasingly complex landscape of technology and innovation.

### The Case Competition

The case, developed with the support of two engineering leaders, presents a dilemma that requires two stakeholder groups to resolve. Two schools compete head-to-head, each representing one of the stakeholder groups. The goal for the successful team is not to win by forcing the other team to lose, but to take the lead in coming up with a win-win solution.

Recent competitions have addressed issues of potential satellite collisions, hypersonics, and challenges of Artificial Intelligence.

### The Schools

In 2023 we look forward to hosting all of the schools and universities from which Lockheed Martin recruits, and would like to recruit, future engineers.

The Case Competition began in 2018. In the five years since its inception a wide range of schools have participated, as well as won.



## The Students

The student competitors have enjoyed the experience of researching solutions, competing, getting a taste of Lockheed Martin, and meeting one another.

*This has been an incredible experience and the result of a lot of hard work by a ton of people - Certainly to get us here and to put on this competition virtually with a quick turnaround. This was an incredibly humbling experience to hear some of the talent and ideas from around the United States. We owe a lot to our faculty advisors for getting us through the last couple weeks of preparation and providing their expertise. Thank you to Lockheed Martin for the opportunity to compete. Thank you to our competitors for their ideas along the way. After every round, you learn something else and that was really important for us.*

— Thomas McClosky, US Air Force Academy, 2022 Champion

*It's been very unique to take the engineering principles we've been learning the past two years and dealing with the ambiguity and uncertainty, and we are sure to face was very inspiring – especially working alongside the other teams. Every school had their own perspective on the same problem.*

— Ryan von Brock, US Coast Guard Academy, 2022 Champion

## Faculty Advisors

The faculty advisors have raved about the opportunity for their students to see what business ethics looks like in the “real world.”

*Thank you for putting on a great event this year, and for including UMass Lowell. The members of our team all got a lot out of it; one student in particular, is very excited about the prospect of working at LM. I especially liked the format this year, as it gave the team a chance to really do some good work in adapting during the competition. This kind of learning is just invaluable for these students as they prepare for their future careers as engineers.*

— Dr. Aaron Pratt Shepherd, University of Massachusetts Lowell

*Thank you for the great competition. I personally think it is one of the best experiences our students can get.*

— Dr Mohamed Amar, University of Nebraska, Lincoln.

**FOR MORE INFORMATION ABOUT THE 2023 COMPETITION  
VISIT [OUR ACADEMIC WEBSITE](#) OR CONTACT  
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