



WE FORM THE FUTURE

COMBINED STRENGTH. UNSURPASSED INNOVATION

CAMX
THE COMPOSITES AND ADVANCED MATERIALS EXPO

SEPTEMBER 23-26

ANAHEIM, CA, USA

2019



Modern Composites Engineering

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CAMX
THE COMPOSITES AND ADVANCED MATERIALS EXPO

Anaheim Convention Center | Anaheim, CA, USA

About me

- Background
 - BS and PhD in mechanical engineering from BYU
 - Internship w/ Exelis Aerospace (now Albany Engineered Composites)
 - Doctoral research sponsorship w/ Zodiac Aerospace
 - Successful ultra-light outdoor gear Kickstarter
- Employment
 - Product development at Sandia National Laboratories
 - Composite materials R&D



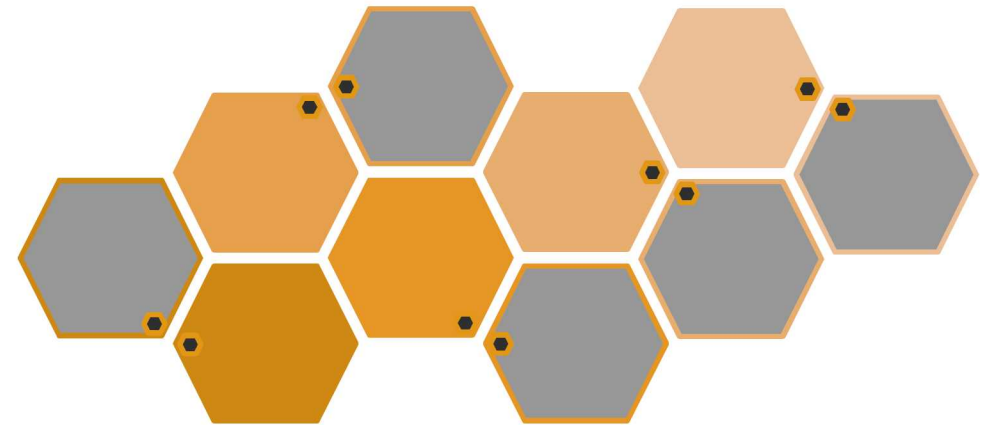
What is Sandia?

- *Sandia National Laboratories is a multimission laboratory managed and operated by National Technology & Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International Inc., for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525.*



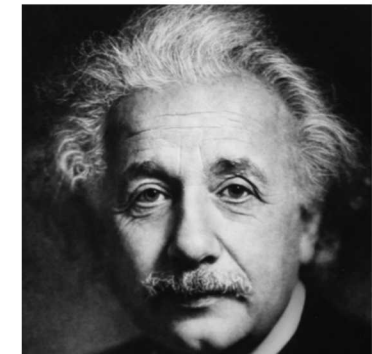
The future of composites innovation

- Innovation by integration
- Growing fields
 - Materials science
 - Additive manufacturing
 - Modeling and simulation
 - Composites characterization



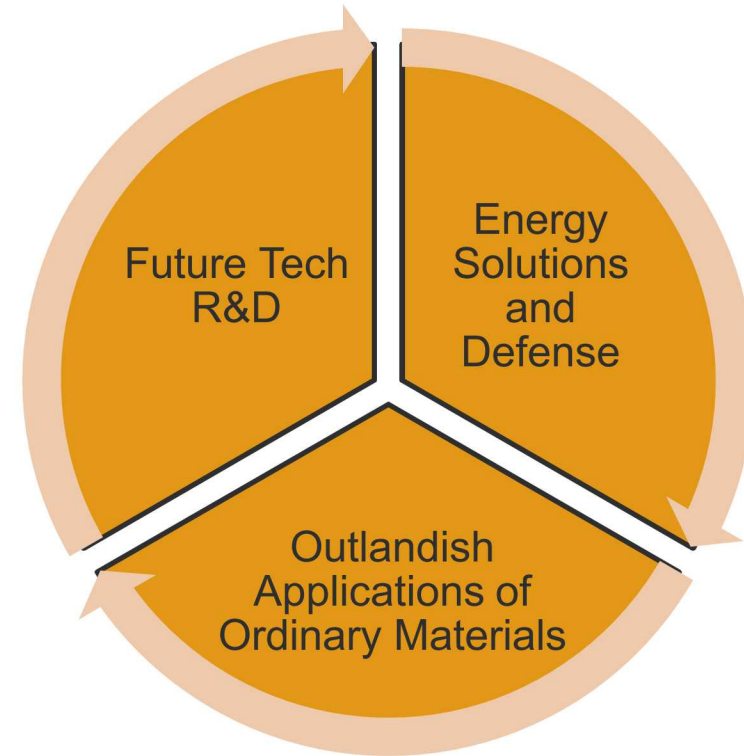
Education at Sandia

- Standing on the shoulders of giants
- Learning from world experts in a variety of niche fields
- Breadth + depth through synthesis of expert insights
- Hundreds of in-house courses



Sandia National Laboratories and composites

- My team's work
 - Product development
 - Composite & adv. materials research
 - Future technology by creative synthesis



Recommendation for you

- Get a post-graduate degree in a STEM field
- Get dirty
- Internship focused on:
 - composites, design, analysis, resin chemistry, processing, additive manufacturing, emerging technologies
- You're competing globally; do something that sets you apart

