Sam Smith

Sam Smith is attending Purdue University where he anticipates receiving a Bachelor of Science in Mechanical Engineering in May 2022.

In summer 2019, Sam will be interning through the IACMI – The Composites Institute Internship Program, with DuPont in Troy, Michigan, under the mentorship of Application Engineer Brandon Bouchard. During his internship, Brandon’s focus will be using additive manufacturing to produce then evaluate the relative strength of multi material specimens. He will also gain experience in the evaluation of process printing parameters on the Z-Directional strength of an additively manufactured test parts and additive manufacturing, mainly FFF with information on polymers and material testing. During his internship, Sam will learn how to test specimens, analyze data and make engineering predictions to explain test results.

Sam has also served as the Project Manager for a team of Purdue University students to help develop a teaching tool for students at the Tumaini Innovation Center in Western Kenya. Collaborating with the students from Western Kenya, the Purdue team designed and created a rotatable solar panel model structure using CAD software. Through the project, the team used a 3D printer with PLA filament to create prototypes and ran a series of experiments to determine the best prototype for the final product.