Fall 2018 Graduate Seminar Series

Rapid Manufacturing – Automating the steps from Design to Make

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Abstract
This talk will explore the motivation and challenges related to Rapid Manufacturing. Today, there is considerable excitement over 3D printing or Additive Manufacturing technologies over the fact that they are nearly push-button processes and can make nearly anything we can design. This used to be called “Rapid Prototyping”, which was and still is often a misnomer; parts take a long time and are not always to quality standards. The focus of the lecture will be on the topic of “Rapid”, how we define it, and how we might enable rapid process planning for manufacturing processes.

About the Speaker
Dr. Matt Frank is an Associate Professor in the Department of Industrial and Manufacturing Systems Engineering at Iowa State University. He earned his B.S. and M.S. in Mechanical Engineering and PhD in Industrial and Manufacturing Engineering from Penn State University. His research focuses on the general area of Manufacturing, with specific expertise in rapid manufacturing using hybrid approaches of Additive and Subtractive technologies.