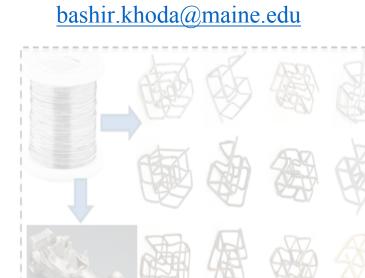# Additive & Digital Manufacturing Laboratory

Leadership:

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The goal of the Additive & Digital Manufacturing Laboratory (ADML) is to enhance manufacturing competitiveness through digital innovation and intelligence. The research of the ADML group focuses on novel design and manufacturing methodology for multi-functionality. We recently developed an additive manufacturing process with rods (metal and polymer), which can address many of the current challenges faced by metal AM. The research marked a shift in the way scientists think about part-process-performance, allowing a synchronized approach between topology, data, material, and manufacturing/ delivery systems. My research aims to increase the use and application of advanced manufacturing in the critical sectors of the US economy (healthcare, aerospace, automotive, and consumer goods). The scholarly program objectives are to pursue the scientific questions in manufacturing science, procure major grant funding, to continue collaboration on projects through multidisciplinary teams (ASCC, AMC, FIRST, Biomedical Engineering, Chemistry Department, and The Jackson Laboratory).