

BIOGRAPHY



Stuart Grant

ASMET

Associate Engineer, Munro & Associates, Inc.

Stuart Grant joined Munro & Associates in January of 2014 while pursuing his Bachelors of Science in Mechanical Engineering at neighboring Oakland University. Stuart has previously earned an Associates of Science in Manufacturing Engineering Technology from Lawrence Technological University, and a Certificate in Machine Tool Operation from Focus:HOPE's Machinist Training Institute in Detroit, Michigan. Stuart holds additional certifications in NX 9.0, and under the EPA Clean Air Act section 609.

At his previous employer, Stuart handled multiple responsibilities, including CNC machine tool operation; quoting DOD small parts contracts; generating CAD files and CNC tool paths using UG/NX; powder coating prototype parts; metrological, production component and metallurgical analysis of experimental test samples including micro hardness tests; EBSD and X-Ray Crystallography using Zeiss scanning electron microscopes; and tensile and flexural testing using Instron double column extensometer. Stuart additionally acted as liaison to the Information Systems department, managing and coordinating information services and computer maintenance for his departments 20 personnel and 80 computer systems.

Stuart has been involved with Additive Manufacturing since 2009 when, at Focus:HOPE, he participated in research to certify the Direct Metal Deposition process for use in repairing worn machined components for departments in the Army and Navy, which resulted in up to 90% savings compared to replacement of many components. In 2013 Stuart also became involved in hobby level additive manufacturing by purchasing a 3D Printer. Since then Stuart has worked to bring Munro customer prototypes to life using additive manufacturing.

At Munro & Associates Stuart has spent considerable time performing benchmarking analysis of individual vehicle commodity systems, benchmarking features, part weight, and supplier and fastener counts which have provided him with a vast knowledge of vehicle systems across a wide range of manufacturers. Stuart also contributes to discussion within Munro regarding possible uses of additive manufacturing within various industries, facilitating the Munro Tech transfer principal.

At Oakland University Stuart has focused on thermodynamics and engine technology, as well as structural analysis and manufacturing processes.

1140 Centre Road Auburn Hills, Michigan 48326

Tel: 248-362-5110

Fax: 248-362-5117

Stuart volunteers his time at Focus:HOPE packing food boxes for single mothers and the elderly, as well as providing design consultation and 3D printed components to FIRST Robotics team 3302: The Turbo Trojans from Clawson High School, and is a regular blood donor through the Red Cross.

1140 Centre Road Auburn Hills, Michigan 48326

Tel: 248-362-5110 Fax: 248-362-5117