I received a B.S. in Engineering Science and Mechanics and a M.S. in Engineering Science from Penn State University where I was as an engineering Teaching Assistant and a Research Assistant. As a Teaching Assistant I taught recitation for entry level engineering courses (Statics and Strength of Materials). As a Research Assistant I designed and fabricated novel biodiesel reactors for CTI Biofuels and AE Resources. The projects culminated in a Bachelor's thesis titled "Exploration of the Effect Frequency has on Ultrasonic Production of Biodiesel" and a Master's thesis titled, "Methods for the Design and Characterization of Combined, Microwave-Ultrasound Biodiesel Reactors." After graduation I worked as a Mechanical Engineer for Westinghouse Electric Company's Piping Analysis and Fracture Mechanics group, where I performed code qualifications to the American Society of Mechanical Engineers Boiler and Pressure Vessel Code (ASME BPVC). I also co-authored "Guidelines for Addressing Environmental Effects in Fatigue Usage Calculations," a multi-company, Electric Power Research Institute (EPRI) report. I resigned my position at Westinghouse to be the General Manager of TechShop Pittsburgh. As General Manager I am responsible for operational and financial management, in addition to business and community development of the Pittsburgh location.