Arpad Herbut | Mechanical Engineer

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Permanent Resident

I do not require sponsorship or relocation assistance to work in the US at any time.

After finishing my Bachelor degree in 2011, I began working as a design/manufacturing engineer while pursuing my MS degree. I generated CAM manufacturing plans based on 3D models created from drafts provided by clients. These products were primarily custom parts for industrial machining tools. While optimizing our manufacturing workflow, I built and maintained the network between a CAM workstation, a 2.5D milling station, and a wired EDM. I attended drafting, 3D modelling, and CAM design courses. I expanded my role over the years by maintaining a good relationship between the technicians and management. This led to an improved work environment and increased productivity.

I had the opportunity to work as an intern at two of the biggest automotive development companies in Hungary. I spent one year on AUDI HUNGARIA MOTOR Ltd.'s Internal Engine development team and another on AVL AUTÓKUT Mérnöki Ltd.'s cooling analysis team. I aided in the development of cooling systems and cooperated with an international team of design and mechanical analysis groups.

While writing my MS thesis in 2016, I worked as a full-time design engineer at a custom lamp design company. It was a fast paced environment due to the fact that a design cycle for a new lamp usually lasted about two to three months. I had to design the product, create drafts of the parts and assemblies, plan and organize production schedules, and supervise the assembly of my design. I particularly enjoyed this position because I could see my work through every phase of production. (http://www.lumoconcept.com/)

After finishing my MS degree, I began working as an analysis engineer, developing an experimental internal combustion engine. As part of a small team, my main responsibility was to create and present analysis studies (stress, thermal and fluid) and prepare process documentation for use by future employees or by partner companies. I optimized various parts of the engine, working closely with the design engineer. Due to the completion of the engine port design based on our analysis, the engine head will be manufactured in 2020 with cold-flow testing beginning shortly thereafter. I also built and maintained our IT system, a network of ~15 computers (Windows, Linux), engineering software (Creo Parametric, ANSYS), and a revision control system (TortoiseSVN). (http://lupfe.com/)

I'm a fast learner, and I believe that based on my design, manufacturing and analysis skills I can adapt quickly. I value a productive, challenging work environment and working with a team towards a common goal.

I believe my experience in the Automotive industry and my time spent in analysis will enable me to be an effective member of your team.