

Job Description:

(April 7, 2010)

Senior or Intermediate Mechanical Designer

WR Davis Engineering Ltd (Davis) is a dynamic mid-sized company specializing in the design of infrared (IR) signature solutions for both naval and aerospace platforms. Davis performs ground-up design, development and manufacture at our Ottawa, Canada facility. More background may be found at www.davis-eng.com.

The current full-time, permanent opening has the following responsibilities:

- 1) Work with project engineers and other mechanical designers to develop designs of Davis aerospace and marine products. These designs are generally “blank page” sheetmetal and/or thin plate welded or riveted assemblies.
- 2) Model the designs in 3D using SolidWorks and produce drawings from the models suitable for fabrication. Produce other design data (such as 3D geometry files, bills of materials, etc) as required.
- 3) Thoroughly check and review the work of other designers. In some cases this individual will act as lead designer for the design team.
- 4) Produce design and product documentation as required, such as operation and maintenance manuals, illustrated parts breakdowns, etc.

Minimum Requirements:

(these requirements represent the minimum requirements for this position. Applicants are encouraged to identify areas where they exceed these requirements, or those areas where they feel their credentials are equivalent):

- Certificate in Mechanical Design or Technology from an accredited college.
- A minimum of eight (8) years of relevant design experience. Experience in the marine or aerospace industries are a benefit, but are not required.
- Thorough working capabilities with the SolidWorks design package, with a minimum of 1-2 years current experience working with it. Work with sheet metal assemblies is a benefit.
- A working knowledge of AutoCAD systems (Mechanical Desktop or Inventor) is a benefit.
- Experience with drafting and engineering prints conforming to ASME Y14 standards
- Knowledge of tolerancing and tolerance stack ups as well as design for manufacture.
- Knowledge of common metal forming and fabrication methods, as well as NC machining processes is considered a strong asset.
- Strong report writing and communication skills in English
- Ability to obtain a Canadian Secret clearance is mandatory.