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## CAE Internship Spring 2022

**Location:** Troy, MI **Start:** March 2022

### Overview:

EDAG, Inc. internship is intended to introduce our CAE Interns to the world of automotive product development principles, by providing a hands on experience in various aspects of vehicle design, structural analysis, mechanics of materials, manufacturing and assembly for, safety requirements, regulatory requirements, costing and reporting within the product life cycle.

### Duties:

- ◆ Building finite element (FE) models of automotive structures from CAD data, and validate against physical data
- ◆ Perform structural evaluations in the fields of NVH, crash/safety, durability, CFD, vehicle dynamics and prepare engineering reports and presentations
- ◆ Perform structural assessments to improve design performance such as alternative materials and manufacturing processes.
- ◆ Implementing efficient processes to speed up project workflow
- ◆ Gain knowledge of computational analysis codes such as MSC Nastran/Adams, LSC LS-DYNA, Abaqus; along with pre-post tools such as Beta CAE's ANSA/ MetaPost, Altair's Hyperworks, Oasys Suite, and Animator.
- ◆ Introduction to linear, non-linear optimization, multidisciplinary design optimization (MDO); using tools such as HEEDS, Genesis, Optistruct and LS-OPT.

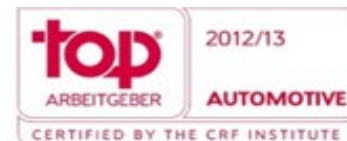
### Qualification/ Required Skills:

- ◆ Knowledge of Mechanical Engineering
- ◆ Understanding of strength of materials and material specifications
- ◆ Familiarity of Finite Element Analysis (desired but not required)
- ◆ Exposure to Microsoft Office Software such as Word, Excel, PowerPoint
- ◆ Good communication and presentation skills
- ◆ Ability to lift 2 to 6 lbs, sit in front of a computer screen for extended periods

**If interested, please send your CV/  
Resume and Cover Letter to:**

**Correen Zahn, HR Manager, EDAG  
USA at [recruiting@edag-us.com](mailto:recruiting@edag-us.com).**

**Please utilize reference code: CAE  
Intern22**



*EOE Minorities/Women/Disabled/Veterans VEVRAA Federal Contractor*

