



Stone Lake Analytics

Look Inside the Machine

Stone Lake Analytics is a consultancy available for long- or short-term engagement on difficult structural analysis (FEA) problems. Our specialty is in multi-component machines, with movement and contact.

We have broad experience in physical testing in parallel with analytical work – we learned “to eat our own dog food”, correlating results and improving study methods.

A Stone Lake client can expect:

- Assistance in formulating closed-end questions and goals for a study
- Expert solid modeling to support the project
- Rigorous study setup, without shortcuts
- Quick turnaround of key results
- Ongoing communication as we learn together about the application
- Formal communication with detailed final reports and supporting documentation.

A Stone Lake client will be asked to provide:

- Best known background of the project including loading and physical interfaces
- Well-posed questions to be answered (typically yes/no or quantitative)
- Detailed 3D geometry (more detail is better – we will simplify if needed)
- Designated contact for quick communication.

Outlines of example studies are available at stonelakeanalytics.com. The contact form there can be used to initiate an inquiry. We look forward to learning about your challenges and digging for the information that you need.

Lead analyst Shawn Mahaney, MSME, has extensive experience with moving machines. In 25 years of work in automotive, heavy rail, material handling, and factory process applications he has dealt with issues in static structure, dynamic loads, casting quality, and hardware specification.

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