

Developments at Proof Engineering

The past six months have been exciting for the engineers at Proof as we've had the opportunity to work on more advanced medical and industrial products. Here are a few snippets of cutting edge technologies that we have contributed to.

Advances in Femtosecond Laser Eye Surgery

20/20 vision has become more achievable through surgery with continuous advances in laser technology and various procedures on the horizon. Recently, engineers at Proof Engineering applied advanced finite element methodologies to design a patient interface for stabilizing the eye during these type of procedures. Through FEA and 3D CAD, a new patient interface was developed for high-volume manufacturing. The design was prototyped utilizing the latest 3D printing technologies for testing prior to production, giving us additional insight into its feel and functionality.



Wireless Monitoring of HVAC Water Pressure

In collaboration with Evergreen Telemetry, Proof Engineering has helped develop a suite of pressure measurement devices that are compatible with Evergreen's unique Wrist Reporter device. The units can be used to measure gauge and/or differential pressure from 125psi to 250psi and also feature simple and convenient drain features activated with a simple toggle or slide switch. The products are expected to be commercially available before the new year.



Making Concentrating PV Dishes Stronger and Lighter

By use of a combination of computer simulation, structural steel design software and Solidworks 3D CAD, Proof engineering has helped a local solar company to improve the weight, cost, and strength of their mirror support structure. The unique dish design tracks the sun and has various configurations allowing it to focus the sun's energy onto photovoltaic cells, improving efficiency through liquid cooling, with the option of using the stored heat to produce even more power.



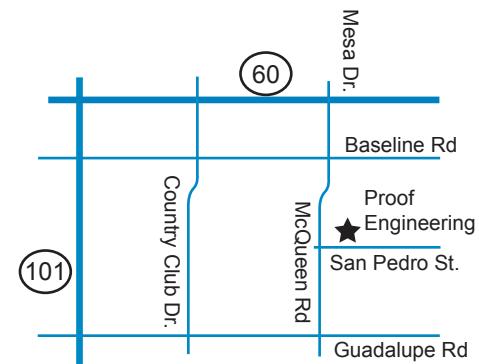
“We've been working with the principals of Proof since our company was started. The Proof team performs so well that we have incorporated their mechanical engineering expertise into our own value proposition.

ViaSol Energy Solutions, CEO

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What we do

We are engineering problem solvers who can help you to:

- Develop or improve products
- Reduce manufacturing costs
- Resolve technical issues
- Investigate and correct failures
- Design test and validation programs
- Comply with safety regulations
- Enhance FEA and CAD capabilities

Our Specialties

- Custom machine design
- Solar tracking systems
- Turnkey industrial equipment
- Specialty vehicles
- Advanced FEA