Subject: Engineering Talent Exposed: Crafting a Motorcycle, Testing, and Going Green

THE ENGINEERING INSTITUTE

The Engineering Institute Newsletter

April 2011 Newsletter

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One Piece at a Time

Jan Sallings

Featured in the 2011 May edition of RoadBike magazine, Jan Sallings machinist and testing assistant for the

Custom built 1972 Honda CL 350

One Piece at a Time

The assembly of this motorcycle is like the old familiar Johnny Cash tune "*One Piece at a Time*." With modifications, as you can imagine, he used a front fender from a 1976 Harley Davidson Super Glide to make a back fender. The skull-shaped shifter knob, used as a decorative piece, came from a 1965 Chevy pickup.

The detail work Jan incorporated into this project is true brilliance, such as the kickstand which is an open-ended Craftsman combination wrench, and the gas tank which was custom-made to fit beneath the backbone. Adding more vintage flare to the motorcycle, Jan custom-made a seat that resembles a vintage bicycle seat. Fellow engineer Mark Partain, one of the Engineering Institute's accident reconstructionists, carved handlebar grips from purpleheart wood. Naturally, there are a great deal more details in making this one-of-a-kind motorcycle. All Jan's expertise and help

Engineering Institute displays his expertise in building a custom motorcycle inspired by an old tandem bicycle.

Website Quick Links

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Restraint Systems
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Vehicle Dynamics & Stability
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from his friends paid off, winning first place trophies in its class five times in a row. So, if you somehow get behind a motorcycle sporting an antique Schwinn bicycle taillight, you can bet it is Jan Sallings on his one-of-a-kind motorcycle touring the countryside.

Testing Engineers

Our engineering staff represents many areas of expertise. Whether it is accident reconstruction, occupant motion, physics-based animation, or instrumented vehicle testing, we have the experience and the facility to serve your forensic needs. For example, unbiased vehicle and component testing are an important part of litigation. At the Engineering Institute, we provide testing for passenger and commercial vehicles, off-road vehicles, seatbelts, etc. Our diversified testing engineers, Alex Roberts, David Beltran, and testing assistant Jan Sallings, have over forty years of combined experience in vehicle and component test design. They have extensive experience in vehicle dynamics testing and test protocol development for diverse on-road passenger applications, as well as off-road ATV design analysis and testing. Contact any of our experienced engineers for your preliminary case evaluations.

Going Green

The "*Going Green*" concept has been ramping up over the last several years with good reason. According to the Sierra Club, the "... average U.S. office worker goes through 10,000 sheets of copy paper a year." Going Green is not painful. In fact, local businesses are not only recognizing the importance of preserving the earth resources, they also recognize the potential cost saving benefits. Technology has played a huge role in "*Going Green*" by turning offices into a paperless environment with e-newsletters, paperless marketing materials, and electronic document storage. Doing our part, The Engineering Institute is constantly looking for ways to be a part of this important endeavor. We now distribute pocket size CDs replacing the traditional business card. The information stored on the pocket CD enables us to send CV information, informative materials, videos, etc. about our engineers and the services they provide. Recycling, scanning, and storing documents on re-usable electronic storage devices, using e-readers instead of printing paper is easy, safe, and effective in reducing cost, all the while

protecting the environment.

Forward email