



2062 NW Thorncroft Drive, Suite 1214
Hillsboro, Oregon 97124

www.imagars.com

Contact – Dr. Baldur Steingrímsson
baldur@imagars.com

Statement of Capabilities

D-U-N-S: 078654177 Cage Code: 6SY82

Imagars LLC provides engineering design software and services aimed primarily at mechanical design. Our Ecosystem software is being used by mechanical engineering (ME) student design teams, in the US and Korea, both capstone, Formula and BAJA SAE teams. To companies in the **automotive** or **aerospace** industry, we offer software for requirement assessment and tracking, along with R&D services. In Phase II of our Small Business Innovative Research project with the National Science Foundation, we are developing a generic design framework capable of **automatic verification** of structured **engineering requirements** as well as improving design decision fidelity through application of **big data analytics** to repositories of known, good designs. The team behind Imagars consists of ME faculties from Portland State University, also with significant industry experience. Our distinguished software architect is a doctor from University of Minnesota with several awards from Intel for engineering excellence.



The Ecosystem for Team Design and Assessment is a comprehensive design decision support system with the central purpose of uncovering design oversights early in the design process



“If a reliability problem is detected during engineering, the cost of the product goes up by a factor of 10. If the problem is caught in production phase, the cost of the product increases by a factor of 100 or more.”

R.S.M. Harry

Ecosystem Product

1. Electronic journal of the complete design history
2. Structured way of guiding designers through the design process and help eliminate design oversights
3. Automatic & objective assessment of design activities
4. Systematic capture of rationale supporting design decisions greatly helps with knowledge transfer
5. Multiple features for facilitating communications
6. Great facilities for project and part management
7. Facilities for automatic generation of formatted project reports for inclusion in progress reports or presentations
8. Requirement tracking and critical parameter management

Services

1. Research and Development (NAICS 541713, 541715)
 - Requirement & project management
 - Decision making systems
 - Big data analytics
2. Engineering Services (NAICS 541330)
 - Design training and support
 - Intellectual property

Sample Clients / References



Portland State
UNIVERSITY



New Mexico State University

Oregon TECH



3D SYSTEMS

THE UNIVERSITY of
NEW MEXICO



UNIVERSITY OF MINNESOTA

Berkeley
FORMULA RACING

UNIVERSITY OF
Nebraska
Lincoln

Sample Testimonials

“Since Sept. ‘17, I have required my Formula and BAJA SAE teams to use the Ecosystem SW. Proper documentation of the vehicles greatly helps in terms of knowledge transfer, esp. if key personnel becomes unavailable come competition time. The automatic reports, with tables and images all linked in, greatly help in terms of organized presentation to the design judges. The judges are expecting to see the design decisions for each subsystem, with supporting rationale, properly documented and effectively communicated.”

Brian Moravec, Professor, Oregon Institute of Technology, Klamath Falls OR

“I have only two teams and both have performed admirably. The Dynamometer team has managed to stay on schedule a little better but I’m not certain whether that is due to Ecosystem or some other factor.”

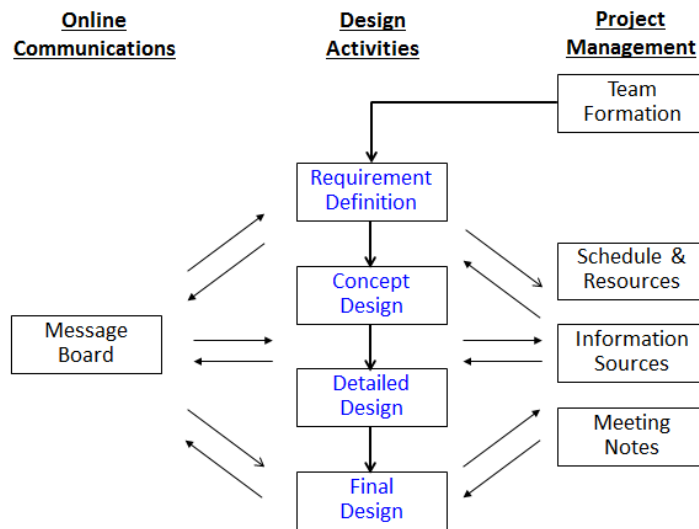
Dr. William Dick, Faculty Advisor, BAJA SAE Dynamometer team, University of Nebraska

“I really like the interface of the Ecosystem with the e-Drawings Viewer as well as the manufacturing support (e.g. the ability to specify the tooling level).”

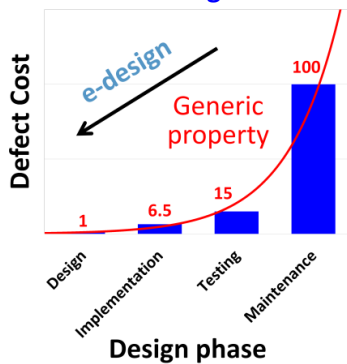
Joel Ludwig, Chief Executive Engineer, TriCon

Further Illustrations

Design Process Supported



Problem: High Cost



Solution: Design Decision Support



Uniqueness: High-Level Decision Support

