



**Charles A. Ogborn**  
**Mechanical / Agricultural Consultant**  
[caogborn@proaaci.com](mailto:caogborn@proaaci.com)

## **PROFESSIONAL EXPERIENCE**

2011 – Present

**PROFESSIONAL ANALYSIS AND CONSULTING, INC.** – Naperville, IL  
Mechanical / Agricultural Consultant

Specializes in mechanical and agricultural engineering, with extensive experience, background, and network in farming and agriculture environments. Knowledgeable regarding industry equipment including tractors, combines, grain storage, conveying, and drying systems. Provides farm infrastructure and crop loss evaluations, identifies plant operation / processing issues, and conducts OSHA and FDA regulation evaluations. Responsible for engineering in matters involving failure analysis, farm machinery damage and related injuries, accident reconstruction, fires, and testing. Possesses hands-on operational experience in farming gained from his family's farm.

2015 – Present

**TYSSENKRUPP PRESTA USA, LLC** – Terre Haut, IN  
Test Engineer

Investigate equipment failures, issues and diagnose faulty operation. Proposes recommendations for product improvement. Supports all component testing activities and responsible for troubleshooting testing equipment. Develops, evaluates, and improves testing methods on mechanical and electrical/controls systems. Supports new product development projects, test new prototype concepts and conducts research and development of future technologies.

2013 – 2014

**SOFTWARE SOLUTIONS INTEGRATED** – Shelbyville, IL  
Business Analyst – Agvance Agronomy

Vital member of Agronomy team responsible for the development and enhancement of Agvance Product Line including identifying process boundaries and developing opportunities to automate processes and functions within Agvance software. Assisted with analysis of department technology usage to determine best course of action for future software development. Responsible for coordination and researching technical requirements. Assisted in ensuring compliance with established internal control procedures by examining records, reports, operating practices and documentation. Solely responsible for the integration of the RFID Grain Scale Interface project with Kahler Automation.

2011 – 2012

**GRAIN SYSTEMS, INC.** – Assumption, IL  
Product Engineer – Storage

Engineering project manager responsible for obtaining CSA certification for the DMC Stir-Ator product line, including 3D design, CAD drawing, testing, functionality, and documentation. Specialized in the development of Commercial Grain Bin, Grain Stirators, and Material Unload Equipment. Responsible for development of data acquisition system and testing used to correlate Finite Element Analysis for a bin roof redesign. Assisted in solving vital problem for specific product line which resulted in unit quality improvement, and reduced failure modes by 50%. Conducted field engineering investigations for multiple product lines.

2003 – 2011 **PACKER ENGINEERING, INC.** - Naperville, IL  
Staff Consultant, Mechanical Engineering

Responsible for all areas outlined in Professional Analysis and Consulting, Inc. above

2001 – 2002 **LEAR AUTOMOTIVE CORPORATION** - Greencastle, IN  
Mechanical Engineer Intern (Summers)

Designed floor layouts in AutoCAD for Toyota and Chrysler lines.

2000 **UNITED MACHINES INC.** – Brazil, IN  
Machinist - Tool Maker (Winter Break)

Operated lathes, millwork, and die assembly for aircraft companies. Also made machine parts for Allison Inc. and Volvo.

2000 **GREAT DANE TRAILERS INC.** – Brazil, IN  
Production Engineer (Summer Break)

Responsible for CAD design, trailer specifications, and blueprint revisions. Conducted assignments on rear suspension design for Keebler trailers as well as design changes for Pepsi and J.B. Hunt trailers.

1999 **BRITT TOOL INC.** - Brazil, IN  
Machinist - Tool Maker (Summer/Winter Breaks)

Operated lathes, millwork, and die assembly. Made tooling for Allison, built and repaired dies for Great Dane Trailers Inc. Built aircraft fixtures and die work for many aircraft companies.

## **ACADEMIC**

- B.S.M.E.Mechanical Engineering Olivet Nazarene University, Bourbonnais, IL (2003)
- A.S. Machine Trades, Vincennes University, Vincennes, IN (2000)

## **CONTINUING EDUCATION**

- Fire Findings: Investigation of Gas & Electric Appliance Fires, 2006
- HAZWOPER Trained, 2005
- Optical Systems for Agriculture Course, 2005
- OSHA 10 Hour General Industry Card, Confined Space, Suspended Scaffold, 2004
- IL Professional Engineering Act & Continued Education Requirements Training, 2004

## **EQUIPMENT EXPERIENCE**

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|------------------|------------------|--------------------|
| • Tractors       | • Backhoes       | • Welder / Torches |
| • Combines       | • Excavators     | • Livestock        |
| • Hay Equipment  | • Overhead Crane | • Poly Materials   |
| • Rotary cutters | • Fork Truck     | • Aircraft / Pilot |
| • GPS Systems    | • Grain Dryers   | • Grain Bins       |

## **PROFESSIONAL AFFILIATIONS**

- AgGateway SPADE2 Team member, Scrum Master for Regulatory Reporting Context Data & AGIIS Integration projects, 2014
- AgGateway Member, 2013
- Aircraft Owners and Pilots Association (AOPA)
- American Society of Agricultural and Biological Engineers (ASABE) #1026144
  - Chairman, Chicago Section, 2008
  - Chairman, ESH-03 Committee, 2008 – 2010
  - Board of Trustees, 2012 – 2015
- Experimental Aircraft Association (EAA)

## **PRESENTATIONS**

- C.A. Ogborn, “Engineering Your Future,” Olivet Nazarene University Engineering Department, Bourbonnais, Illinois, 2014
- C.A. Ogborn, “Capturing the Facts,” Iowa Defense Counsel Association Annual Meeting, Des Moines, Iowa, 2010
- C.A. Ogborn, “Applying Technology to Site Documentation and Evidence Preservation,” Defense Trial Counsel of Indiana, Michigan City, Indiana, 2010

## **LICENSES**

- Service Agent License, State of California, Department of Food & Agriculture Division of Measurement Standards: License #30486 (Exp. 2/5/2019)
- Order of the Engineer Award (ASABE 2012)