

Abraham Hartman

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SUMMARY

Applications Engineer with six years supporting **mobile equipment**, Fluid Power, **hydraulic systems**, controls, and electrification applications in manufacturing settings. Translates OEM requirements into practical system concepts, component selections, integration plans, and validation activities. Leads customer projects from technical discovery through prototype evaluation and production readiness, with clear documentation, schedules, issue tracking, **pricing coordination**, and status communication. Hands on work includes shop troubleshooting, field application support, product evaluation, testing, performance validation, and resolution of hydraulic, control, mechanical, and integration issues. Partners closely with design engineering, manufacturing, sales, distributors, and OEM customers, turning field feedback into product recommendations and process improvements. Uses Microsoft Office, Excel, financial analysis, and market awareness to connect engineering decisions with customer value and commercial priorities. Ready to contribute clear **technical communication**, organized execution, and practical problem solving in a customer focused applications engineering environment.

EXPERIENCE

Senior Applications Engineer

January 2024 - Present

Vector Mobility Systems

Schaumburg, IL

Leads application engineering for OEM mobile equipment programs involving hydraulic actuation, electronic controls, and electrified subsystems. Owns customer projects through concept development, prototype evaluation, validation, production readiness, and launch support. Coordinates engineering, manufacturing, sales, and distribution partners while maintaining technical, commercial, and project visibility.

- Translated OEM operating requirements into integrated hydraulic, control, and electrification concepts with validation plans.
- Directed prototype projects through evaluation and **production readiness** using schedules, issue logs, documentation, and pricing inputs.
- Troubleshoot shop and customer systems through structured testing, component evaluation, and performance data review.
- Coordinated product revisions with **design engineering** and manufacturing after packaging, durability, or production concerns emerged.
- Guided **field sales** and distributors on product selection, **Fluid Power** behavior, application tradeoffs, and issue escalation.
- Converted OEM and competitor feedback into **engineering recommendations** for product improvements and **adjacent applications**.

Applications Engineer

July 2022 - December 2023

Midwest Controls & Hydraulics

Elgin, IL

Supported mobile hydraulic and control applications for equipment manufacturers, combining technical customer engagement with component selection, system review, testing, documentation, quotations, and issue resolution. Managed concurrent engineering requests and connected customer observations with internal engineering and product teams.

- Reviewed duty cycles, interfaces, pressure, flow, and **control expectations** before recommending hydraulic system configurations.
- Executed bench and machine tests that validated **component selection** and identified **corrective options** for performance gaps.
- Managed concurrent customer requests through drawings, specifications, test records, quotations, action items, and follow up.
- Resolved **application issues** by reproducing symptoms, comparing results with specifications, and confirming changes through repeat testing.
- Gathered OEM and distributor observations, then organized recurring needs for engineering and product team review.
- Used Excel and **Microsoft Office** for project tracking, **technical comparisons**, pricing coordination, and financial review.

Application Engineering Specialist

October 2020 - June 2022

Great Lakes Fluid Systems

Rockford, IL

Supported hydraulic component selection, application reviews, shop troubleshooting, product evaluation, technical calculations, and customer documentation under senior **engineering guidance**. Coordinated questions among customers, sales, manufacturing, and engineering while building practical knowledge of Fluid Power, controls, mechanical systems, and **structured problem solving**.

- Supported hydraulic component selection and application reviews for mobile and industrial equipment customers.
- Prepared calculations, product comparisons, **application notes**, and customer documents clarifying limits and system configurations.
- Set up shop test conditions, recorded observations, checked specifications, and organized findings for engineering review.
- Coordinated technical questions among customers, sales representatives, **manufacturing** contacts, and engineering resources.
- Maintained Microsoft Office project files containing specifications, correspondence, test records, actions, and customer changes.
- Developed practical knowledge of hydraulic circuits, **controls**, mechanical systems, and structured application **problem solving**.

LEADERSHIP & AWARDS

- Recognized by engineering and sales peers for clear technical communication during complex OEM application reviews.
- Trusted by customer teams and distribution partners for organized project follow up and practical issue resolution.

EDUCATION

Bachelor's Degree in Mechanical Engineering
Northern Illinois University GPA: 3.5
Coursework: Fluid Mechanics, Controls Engineering, Mechanical Design, Manufacturing Processes

2020
DeKalb, IL

CERTIFICATIONS

- Fluid Power Application Training 📅 2024
- Microsoft Office Technical Applications Training 📅 2022

TECHNICAL SKILLS

- **Hydraulic Systems:** Hydraulic circuits, pressure and flow analysis, hydraulic actuation
- **Fluid Power:** Fluid Power applications, component selection, operating limits
- **Mobile Electrification:** Electrified subsystems, mobile equipment, system integration
- **Controls Engineering:** Electronic controls, control expectations, control troubleshooting
- **Mechanical Engineering:** Mechanical interfaces, duty cycles, mechanical comprehension
- **Application Testing:** Bench testing, machine testing, performance validation
- **Product Evaluation:** Component evaluation, product comparisons, application reviews
- **Project Management:** Schedules, issue logs, action tracking
- **Technical Documentation:** Specifications, drawings, application notes
- **Microsoft Office:** Excel, Microsoft Word, Microsoft Office
- **Customer Engineering:** OEM support, technical communication, issue resolution
- **Manufacturing Support:** Product revisions, manufacturability, production readiness

SKILLS

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|--------------------------|----------------------|--------------------------|---------------------------|
| • Fluid Power | • System Design | • Product Evaluation | • Manufacturing Support |
| • Hydraulic Systems | • OEM Support | • Performance Validation | • Technical Sales Support |
| • Mobile Electrification | • System Integration | • Project Management | • Market Analysis |
| • Controls | • Troubleshooting | • Product Development | |

PROFESSIONAL AFFILIATIONS

- Professional collaboration with OEM customers, design engineers, manufacturing teams, field sales, and distributors.
- Ongoing engagement with Fluid Power, mobile equipment, controls, and electrification communities through customer and market feedback.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST