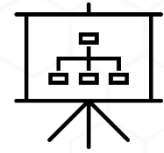


# RYAN SASS

Technical Project Manager  
and Mechatronics Engineer

925.989.6488  
<https://ryansass.com>

ryan.sass@gmail.com  
Pleasanton, California



## EXPERIENCE

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### Senior Systems Engineer

Ripcord, Inc. Hayward, CA 5/2023 – 4/2024

A leader in document-to-data conversion using AI and robotic automation.

- Led and managed a 5-person development team through the successful deployment of automated robotic book imaging machines in Japan, managing the entire 7-month development from prototype to production and delivery.
- Spearheaded the implementation of robotic movement and process flows, showcasing expertise in systems and software engineering.
- Promoted to primary SolidWorks PDM Admin managing the company's PDM data Vault with MySQL.

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### Senior Application Engineer

EaglePicher, Inc. Remote 9/2019 – 1/2023

A manufacturing leader in battery, energetic, and BMS technologies with solutions for aerospace, defense, and health.

- Created a proposal pricing estimation tool using advanced Excel skills to improve cost projections and resource timing visibility, resulting in 15% improvement of contract bid accuracy for SBU & Application teams.
- Generated an Excel-based tool to streamline testing resulting in higher contract execution efficiency by 10%.
- Provided feasibility assessments, cost and resource estimation, and generation of technical write-ups.
- Applied project management skills using MS Project to estimate project schedules, assess resources, cost, and feasibility, propose technical solutions including detailed write-ups, and validated alignment with AOP, STRAP, and SBU direction, to prepare ROMs, RFQs, and RFPs to win future business.
- Gained in-depth understanding of military, aerospace, and defense customer needs and decision-making processes to better prepare meeting customer needs.

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### Technical Project Manager

EaglePicher, Inc. Burlingame, CA 9/2018 – 9/2019

- Led the product development of a smart battery system with hands-on management of multi-disciplinary engineering and operational teams including developing of technical solutions to address development gaps.
- Provided direction and leadership for multi-disciplinary engineering and operational teams to complete project deliverables for customer contracts and specifications.
- Maintained customer satisfaction and achieved timely, quality completion of project CDRLs and deliverables, meeting projected targets in accordance with customer's

## EDUCATION

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Master of Science,  
Mechanical Engineering  
*with Emphasis in Robotics and Mechatronics*  
Santa Clara University 2016

Bachelor of Science,  
Mechanical Engineering  
UC Santa Barbara 2009

## CERTIFICATIONS

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Certified SolidWorks Expert  
Certificate ID: C-GM95EE8DNE

Certified SolidWorks Simulation  
Professional – FEA  
Certificate ID: C-58B8GQXSLR

Google Project Management  
Coursera Certificate: UPYUU5BGXNBH

## SKILLS SUMMARY

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### Project Management

MS Project, WBS, SOW, CDRLs, KPIs, resource management, process improvement, budget and risk management

### Client-Facing

Clear communication, emotional awareness, problem solving.

### Product Development

Concept, design, DFM, prototyping, analysis, DFMEA, testing, validation, review, manufacturing layout, final assembly, quality, and cost reduction

### CAD and Analysis Tools

SolidWorks, SolidWorks Simulation, Ansys FEA

### Robotics

FANUC, KUKA, UR, Rethink Robotics, Epson, Cognex Vision, trajectory planning, end effector design and

# RYAN SASS

- requirements.
- Documented and tracked compliance with customer requirements, addressed development gaps, and reported on the financial status of the project.
  - Translated project milestones and KPIs into developed project plans, communicated and collaborated with stakeholders to provide visibility of the status of project deliverables while managing expectations.

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## Lead Automation Engineer


**Jabil, Inc.**  San Jose, CA  9/2017 – 7/2018

A global leader in contract manufacturing innovating automated manufacturing to reduce mass production costs.

- Led a five-person design team in the development of robotic arm work cells and multi-use end-effectors for production of medical and technology hardware.
- Worked closely with senior management to generate project timing plans and communicated the status of project deliverables and managing expectations.
- Mentored junior-level engineers in the areas of mechanical and electrical design and drawing.

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## Mechatronics Engineer, Advanced Product Dev.

**Think Surgical, Inc.**  Fremont, CA  11/2016 – 8/2017

Developing the next gen and manufacturing the only active tracking robotic surgical system for orthopedic surgery.

- Led the conceptualization and development of robotic-arm support assemblies.
- Collaborated with the software dev team to define robotic joint space and end-effector tooling.
- Spearheaded the procurement and establishment of a new prototype, development, and testing lab.

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## Mechanical Engineer

**Qylur Intelligent Systems, Inc.**  Palo Alto, CA  9/2010 – 8/2016

A technology and security company developing an automated, multi-user, x-ray baggage scanner.

- Reduced manufacturing costs through collaboration with suppliers and led mechanical design update efforts for an autonomous x-ray scanning machine.
- Implemented safety protocols for UL, CE, FDA, NEMA, and OSHA standards and certification.
- Managed initial run for production lines in Israel.

## Mechanical Engineer

integration, control algorithms, kinematics & dynamics

### Systems and Automation

UAV automated control, hardware and software control systems, mechatronics & electro-mechanical systems, PLC programming and control, IIoT

### Standards

UL, CE, FDA, OSHA, ASME, ISO, NEMA, FAA, IEEE, MILSTD-810, IP-xx

### Fabrication

Additive mfg, laser cutters, mills, lathes, CNC, soldering, and hand tools

### Battery Design

Thermal and runaway mitigation, BMS architecture, system integration

### Battery Safety

S9310, SG270, UN/DOT 38.3

### Firmware and Embedded

C++, C#, V+, TwinCAT, Arduino, Galil DMC, SpEL, Ladder Logic

### Software Exposure

C, C++, Python, Kotlin, MATLAB, SQL, HTML, CSS, PHP, JS

### Electronics

Circuit diagrams, board design, grounding, DC analysis, validation, debugging

