

JOHN PARTRIDGE

Bakersfield, CA (*willing to relocate*) | (909) 296-0324 | john@jpartridge.com | linkedin.com/in/john-partridge

Experienced engineer with an automotive background specializing in the testing of advanced driver-assistance systems (ADAS), autonomous vehicle technologies, and vehicle dynamics. Additional technical aptitude developed through many years of volunteer engagement in short track motorsports racing, contributing to numerous victories. Eager to leverage diverse background to contribute to the progress of cutting-edge technologies.

EDUCATION

Bachelor of Science in Mechanical Engineering | California State Polytechnic University, Pomona

June 2016

EXPERIENCE

Dynamic Research Inc | Torrance, CA

Senior Staff Engineer | Testing Facility Manager | 2020 – Present

Staff Engineer | 2017 - 2020

- Employs technical expertise and experience to successfully perform Advanced Driver Assistance Systems (ADAS) testing; vehicle dynamics testing; data acquisition and analysis; MATLAB post-processor development; database management; and testing equipment maintenance, repairs, and modifications.
- Operates the Suspension Parameters Measurement Machine for kinematics and compliance testing.
- Oversees a team of engineers and technicians in both the daily operations of DRI's satellite testing facility in Shafter, CA and the continuous refinement and expansion of testing services.
- Onboards and trains new engineers on DRI processes and testing procedures.
- Guides fellow test engineers through the troubleshooting processes during equipment and software malfunctions.
- Collaborates with customers and government agencies in the research of testing services to further the advancement of safety related to ADAS and Autonomous Vehicles.
- Successfully plans and manages capital expenditures for testing equipment upgrades and facility expansion, ensuring optimal use of resources and meeting project timelines.
- Creates detailed budget estimates for ADAS testing projects, including equipment procurement, personnel costs, planning and preparation, and proving ground rental, ensuring accurate project cost forecasting and financial planning.
- Develops and writes proposal letters and statements of work for ADAS testing projects, outlining project scope, deliverables, timelines, and cost estimates to secure new business and contracts.
- Utilizes strong communication and negotiation skills to effectively present budget estimates and proposals to clients, gaining their trust and confidence in DRI's capabilities and services.
- Coordinated the expansion of the DRI test facility and proving grounds.
- Led development of the low inertia robotic steering controller used in Lane Keeping Assist System (LKAS) testing at DRI.

Bernell Hydraulics Inc | Rancho Cucamonga, CA

Systems Engineer | 2016 - 2017

- Assisted customers by troubleshooting hydraulic system malfunctions; sizing and rebuilding pumps, valves, and cylinders; and providing sales support.
-

SKILLS

- ADAS
- Vehicle Dynamics
- Track Testing
- MATLAB
- Python
- C++
- Simulink
- DSpace Control Desk
- K&C/MOI/CG Testing
- Data Acquisition
- Post Processing
- ABD Robot Controllers