

ENGINEER ■ PROJECT MANAGER

QUALIFICATIONS PROFILE

Goal-oriented, creative, and seasoned professional with proven 13 years of experience in developing base vehicle engine, integrating powertrain to the vehicle, and catering drive and safety characteristics for the target market. Equipped with extensive experience in engineering and management, research and development, test and problem solving with exceptional skills in improving services and products, reducing costs and lead times, delighting customers, as well as helping and mentoring others.

AREAS OF EXPERTISE

- Product Design
- Engine Calibration
- System Interaction
- Contract Negotiation
- Program Timelines Development
- Task Delegation
- Troubleshooting
- Engine Performance Optimization

PROFESSIONAL EXPERIENCE

SECANT VEHICLE ENGINEERING, LLC. ■ SAN FRANCISCO, CA  
PRINCIPAL OWNER

AUG 2006 -PRESENT

Establish and manage a vehicle development and consulting business in San Francisco that offers completely developed power train package replacements for the latest Lotus vehicles and consulting arm. Monitor the entire company setup and operations. Carry out various functions such as sorting products and packages as well as designing and establishing marketing materials. Coordinate parts and services sourcing, negotiations and terms, purchasing, manufacturing, and contractual services setup for building space and services. Oversee full-time and part-time employees comprised of a senior vehicle integration engineer, senior chassis engineer, senior software engineer, professional press relation person, technicians, and specialists.

Key Accomplishments:

- Was featured in Road & Track® magazine and in Edmunds InsideLine® online review.
- Designed and set up the company’s e-commerce website.

DINAN ENGINEERING ■ MORGAN HILL, CA  
SENIOR CALIBRATION ENGINEER

2005-PRESENT

Held responsible for engine and transmission vehicle calibration of latest BMW and mini vehicles for Dinan. Liaise between California Air Resources Board and Aftermarket Group to ensure that products meet the state and federal regulatory emissions and On Board Diagnostics (OBD) requirements.

LOTUS ENGINEERING ■ ANN ARBOR, MI  
CALIBRATION GROUP MANAGER & SENIOR PROJECT LEAD ENGINEER

2003.5-2005

Led two concurrent production programs contracted with General Motors. Performed customer interaction, risk assessment, and program planning to sustain requirements and customer objectives. Harmonized team project tasks with program needs. Handled daily calibration such as testing engine performance, gauging tailpipe emissions, protecting components from heat, fixing malfunctioning engine conditions, evaluating start and drivability in all climactic conditions, and overseeing and planning diagnostic system calibration tasks. Planned and led several test drive trips on hot and cold weather, high altitude, and below sea level using chassis and engine dynamometers as well as on-road and test track development. Provided expertise

to assembly plants during production build start up, including build troubleshooting, training, and constant communication to plant management to resolve issues.

**Key Accomplishments:**

- Created and implemented vehicle drive metrics relative to customers' requirements.
- Designed, developed, and implemented a project database that provides detailed development history and easy-to-understand weekly / quarterly meeting updates to customer.
- Consistently met deadlines for release of product (vehicle software), leading to high demand of products.
- Received **Ward's Auto World® 10 Best Engines award for 2006.**
- Held responsible for **\$8 million programs x2 model years of vehicle production.**

ROBERT BOSCH CORPORATION ■ FARMINGTON HILLS, MI

SENIOR PROJECT ENGINEER

1999-2003

Led and supervised 18 development engineers responsible for completing engine calibrations to meet car production's CARB/EPA and OBDII diagnostics regulatory requirements, as well as customers' power, startability, and drivability criterion. Arranged and organized trips to various testing sites to execute hot weather, cold weather, and altitude testing.

**Key Accomplishments:**

- Effectively coordinated a **\$2 million program.**
- Chaired and presided monthly customer meetings to review project progress relative to milestones and ultimate program completion.
- Negotiated and settled estimated hours and tasks of partial programs with customer.

ROUSH INDUSTRIES ■ LIVONIA, MI

CALIBRATION AND HARDWARE DEVELOPMENT ENGINEER

1995-1999

Served as engine hardware development engineer while performing as engine calibration engineer (software) on Ford Special Vehicle Team and production vehicles simultaneously. Played an integral role in calibrating the powertrain, utilizing system and associated engine components forming a fully developed and production-ready state.

**Key Accomplishment:**

- Conducted studies and research regarding the time spent in developing engine airflow components for new technology engine, vehicle subsystem development in the areas of vehicle cooling due to engine power increases, as well as significant dynamometer time for engine development.

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## EDUCATION & TRAININGS

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**Bachelor of Science in Mechanical Engineering, Major in Technology Design and Energy**

Milwaukee School of Engineering ■ Milwaukee, WI: 1995

**Internal Combustion Engines** ■ Massachusetts Institute of Technology

**Microsoft Project Timeline Training**

Control System Training for INCA by ETAS, Bosch ME7 & ME9, Bosch Motorsport ME 4.3, Siemens, Pectel (Pi), BMW Diagnostics and Programming

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## AFFILIATIONS & ACTIVITIES

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Commonwealth Club of California

Automotive and Industrial Concept Designer

Distance Runner for Competitive Events