

# Kevin D. Voiture

586.555.7809 | kvoiture@nomail.com  
Shelby Township, Michigan 48316



## Engineering Group Manager — Advanced Vehicle Integration Champion-Winning Competition Motorsports, Off-Road, and Performance Vehicles

### CORE COMPETENCIES

Automotive Engineering • Vehicle Integration/Design/Build • Project Management • Proposal Development • Flexible Fabrication/Additive Manufacturing • Team Management • Team Building • Program Management • Component Design and Development • Validation Testing • Requirement-Driven Design • Budget Management • Advanced Technology

### PROFESSIONAL EXPERIENCE

**AUTOMOTIVE OEM CORPORATION** | Warren, Michigan | Fortune 500 | \$152B Revenue | Global

#### Engineering Group Manager—Advanced Vehicle Integration, Defense (09/2020 - Present)

Lead a team of six engineers in integrating vehicles for military and government use, providing direction from project inception through production. Manage integration of chassis, suspension, body, structure, and interior of both gas and electric vehicles. Support demo vehicle builds with engineering data at the build source. Collaborate with partner organizations for peer reviews and specialized expertise. Manage project resources and budgets of up to \$500K.

#### **Built a new Advanced Vehicle Integration Defense Group after previous Performance Group split to support Defense**

- ▶ Rebuilt a team of highly talented advanced engineers. Vetted, recruited, and hired from internal network.

#### **Current Projects on track and meeting benchmarks, technical specifications, and cost targets:**

- ▶ Lead reconfiguration of the Defense Infantry Squad Vehicle (ISV) with the integration of an e-Crate (electric motor) propulsion system.
- ▶ Manage virtual benchmarking vs. tear down comparison for the Joint Light Tactical Vehicle (JLTV).
- ▶ Oversee integration of an Ultium battery architecture; RESS, motors, and controls into a demo vehicle.
- ▶ Manage global Road Load Data acquisition projects for the defense organization.

#### Engineering Group Manager—Off Road, Performance, Motorsports, and Integration (Promotion, 04/2018 - 08/2020)

Managed team of five engineers who integrated vehicles for performance, motorsports, and off-road use. Collaborated with other departments to meet performance targets. Created marketing opportunities for performance accessories. Used lessons-learned in racing to impact specifications for new production vehicles. Developed and managed project budgets.

- ▶ Led architectural integration team that developed the defense infantry squad vehicle (ISV) demo in its entirety, resulting in a **\$250M contract**.
- ▶ Directed team in the design, development, and build of a full-size, light duty, off-road race vehicle for advanced development work. 2020 Best in the Desert Class 1200 Champion.

Promoted to lead this new group due to integration experience and reputation as internal off-road expert. Developed group into center of expertise for off-road performance.

### Engineering Group Manager—Off Road, Performance, Motorsports, and Integration (continued)

- ▶ Led full size light duty off road racing program that provided valuable lessons learned to redesign upper shock mount for off road use, eliminating future warranty claims.
- ▶ Achieved a three-year extension of existing off-road **race contract valued at \$325K**, based on record of winning history and impact to production programs.
- ▶ Provided integration support for the E-10 SEMA project – a concept vehicle built and on display on SEMA floor in 18 weeks.
- ▶ Sponsored electric vehicle performance project for an electric racing vehicle.

#### Led development of vehicles that won:

- Two championships for mid-size trucks
- One championship for a full-size truck

### Program Manager, ZR2 Off Road, Performance Parts (06/2016 - 03/2018)

Managed suspension design and development of an off-road race vehicle and performance parts kits. Established vehicle technical specifications, program goals, and objectives. Orchestrated project schedule and budgets. Led vehicle build and development at the Desert Proving Grounds. Worked cross-functionally with engineering and technical groups.

- ▶ Engineered, designed, and developed all components for 14 unique off-road accessory kits and created a go-to-market strategy for the portfolio. Kits ready for sale at SEMA 2017 through dealerships. **Impact revenue for 2018: \$150K.**
- ▶ Assigned Engineering Team Manager for Off Road Racing Team and **secured a \$125K racing contract** for Performance Parts and Accessories.

Led design and build of a vehicle that won all races entered, including two *Best in the Desert* championships.

### Compartment Integration Design Engineer, Performance Parts (03/2015 - 05/2016)

- ▶ Completed a comprehensive performance vehicle integration on compressed schedule.
- ▶ Reverse engineered 5<sup>th</sup> generation vehicle to implement learnings into 6<sup>th</sup> generation.

### Senior Design Release Engineer, Performance Parts (08/2013 - 02/2015)

- ▶ Engineered, designed, and built a proof-of-concept vehicle. Managed a \$30K budget – completing project at 30% under cost. Vehicle was rebodied into a concept vehicle and unveiled at the 2014 LA Auto Show.
- ▶ Developed and released 6<sup>th</sup> generation performance part lowering kit, #1 selling chassis performance kit for the division, 2015-2016

Advocated and won approval for a proof of concept after program was nearly abandoned. Ultimately, this model evolved into a production vehicle that matched my proof of concept.

### Senior Design Engineer Concept Vehicle Engineering (04/2002 - 08/2013)

- ▶ Designed and engineered over 10 unique front and rear suspensions for concept cars, as well as all concept car wheels, for eight years in a row.
- ▶ 2006 SoCal Bonneville Land Speed Program Manager for a four-car program, including two record-setters.
- ▶ Crew Chief for the 2005 SoCal Lakester, established a record with Ecotec Lakester.

### Early Career with OEM

Senior Designer: Concept Vehicle Engineering  
 Research Designer: Global R&D Operations  
 Senior Powertrain UG Designer: AMI Engineering - Powertrain

## EDUCATION & TRAINING

**Bachelor of Science Engineering Technology (B.S.E.T.)** | Lawrence Technological University | Southfield, Michigan  
**Associates of Science Design Technology (A.S.D.T.)** | St. Clair County Community College | Port Huron, Michigan  
**Design for Six Sigma (DFSS) Black Belt**