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## **CAREER OBJECTIVE**

A career position that requires superior leadership, resourcefulness, planning and negotiation skills to effectively bring innovative and high quality products to market.

## **SUMMARY OF QUALIFICATIONS**

Engineering professional with background in product design and manufacturing. Well developed problem solving, improvisation, presentation, decision making and persuasion skills that best manifest themselves in a cooperative, creative and innovative environment. Reputation for being very approachable and for accomplishing difficult tasks under adverse conditions.

## **SELECTED ACCOMPLISHMENTS**

### **BUSINESS PLANNING**

Negotiated price and weight targets and work expectation agreements with suppliers, which resulted in both customer satisfaction and healthy profit margins. Developed and maintained rapport with suppliers, as well as with manufacturing and assembly plant personnel, which resulted in forward model Exhaust System designs conducive to both lower costs and improved quality. Designed and implemented a time saving driveshaft configuration software algorithm for heavy truck application. The tool significantly reduced design complexity and warranty.

### **PRODUCT DESIGN -**

PTSSE Exhaust Systems Design - \$150 million commodity: Re-designed, developed and tested the exhaust system for 5.4L and 6.8L 2005 Ford Superduty F-Series and Excursion Platform, which resulted in significantly improved NVH Sound Quality, reduced engine horsepower loss, and satisfied government mandated emissions targets.

Implemented robust improvements to current, past model and service designs, which resulted in increased quality and reduced cost, weight and warranty of exhaust components.

Improved customer relations by serving as liaison to the manufacturing and assembly plants to address current model design concerns and the logistics of implementing current design changes.

Developed and maintained rapport with suppliers and assembly plant personnel, as well as with manufacturing, which resulted in forward model exhaust system designs conducive to both lower costs and improved quality.

Received Ford Customer-Driven Six-Sigma Green Belt designation 2003.

### **MANUFACTURING**

Led Ford Ranger/Mazda B-Series Global 8-D team in an effort to reduce the impact

of IP buzz resulting from a redesigned engine power control module. Executed interim containment action on all trim lines. Significantly reduced Mass Air Flow Sensor warranty, by working with a Six-Sigma Black belt ,discovered root cause. Developed dealership technician education strategy to prevent unwanted part replacement, thus lowering warranty costs and higher profit margins.

## CAREER HISTORY

**FORD MOTOR COMPANY** - The second largest automobile manufacturer in the world, with headquarters in Dearborn, MI. 2000 sales were over \$141 billion.

**Product Design Engineer, Exhaust Systems** 2001-Present

Support all aspects of exhaust system design. Devise and implement process improvements and cost savings. Launch 2005/7MY programs including Parts Submission Warrant (PSW) and Production Part Approval Process (PPAP) submissions and support various prototype build events.

**Ford College Graduate Program** 1999-2001

Driveline Systems Design  
Electronic Returnless Fuel System  
Plant Vehicle Team - Edison Assembly Plant (Ford Ranger/B-Series Mazda)  
Product Development Operations e-Business Processes  
Diesel Exhaust AfterTreatment

## EDUCATION

**B. S. Mechanical Engineering**, Florida A&M University Tallahassee, FL 1999

## TRAINING AND SEMINARS

Consumer Driven 6-Sigma	FMEA
Women and Men as Colleagues	Parameter Design
Design for Experiments	Tolerance Design
Design for Assembly	Systems Engineering
Basic Gasoline Engines	

Completed Ford College Graduate Program 2001

## COMPUTER SKILLS

Unix, Linux, Microsoft Office Suite, DOS, VMS

## COMMUNITY AND VOLUNTEER ACTIVITY

National Society of Black Engineers - Detroit Alumni Extension- The National Society of Black Engineers (NSBE) is a non-profit 501(c)(3) association owned and managed by its members. NSBE offers members professional development, leadership training, mentoring opportunities, community service and outreach programs. The organization is dedicated to the success of African American engineering students and professionals.

**Telecommunication Special Interest Group Chair -** 2001-Present

Ben Carson Lifetime Scholars - A non-profit organization, which conducts activities at Lawrence Technological University in Southfield, MI, and is geared towards advancing the scholarship of Metropolitan Detroit youths via rigorous math, verbal and writing regimens (<http://www.bencarsonscholars.com>).

**Technology Director** 2001-Present  
**Academic Coach: Math** 1999-2001

Detroit Area Pre-College Engineering Program(DAPCEP)  
Services Detroit-area minority students who are encouraged and academically prepared to pursue careers in the science, engineering, and technical fields.

**Detroit Teen Group Volunteer** 1999-Present  
HTML Authoring Workshop Facilitator

Ford African-Ancestry Network (FAAN)  
Promote an environment within Ford Motor Company which recognizes the value of diversity and which attracts, develops and retains African-Ancestry salaried employees to the fulfillment of company objectives.

**Website Committee Member** 2000-Present