Alexandra C. Roche

OBJECTIVE	To obtain an internship position in the field of Electrical and Computer Engineering.
EXPERIENCE	Ford Motor CompanyDearborn, MI EESE Infotainment Systems – Product Development Intern May – Aug 2013 Project: CANoe ModelDobjective: Implement various SDARS functions into existing CANoe ModelObjective: Implement various SDARS functions for spec releaseGained insight into infotainment systems and CAN signalsBenchmarked competitor vehicle connectivity systemsHelped organize and maintain intern presentation review meetingsDeveloped team building skills through community service and intern events
	 Takata Auburn Hills, MI Summer Engineering Intern May – Aug 2012 Project: Vibration Steering Wheel Demonstration Objective: Create new demonstration that gave a vibration steering wheel user modes Conceptualized and applied possible user modes for vibration steering wheel Manipulated vibration motor in steering wheel and created a GUI for demonstration using LabVIEW and Arduino hardware / software Learned the importance of both functionality and design in product development Present project and research to engineering team for future development Demonstration was showcased to upper management at internal Ford event
EDUCATION	Michigan Technological UniversityHoughton, MIBS Electrical Engineering and Computer EngineeringExpected 2015GPA: 3.32
TECHNICAL SKILLS	 LabView Java MATLAB MultiSIM CADsoft EAGLE Mathematica Assembly Arduino Circuit Analysis C CADsoft EAGLE Microsoft Office Siemens NX Verilog
SOCIETIES	Eta Kappa Nu (IEEE-HKN) Recording Secretary, MTU Chapter of HKN, 2013 – Present Society of Women Engineers (SWE) Member, MTU Chapter of SWE, 2011 – Present
CO-CURRICULAR WORK EXPERIENCE	Van Pelt and Opie LibraryHoughton, MIStudent Research ConsultantAug 2013 – Present• Working 8+ hours per week while maintaining a full academic scheduleHartland, MIMeijerHartland, MIUtility WorkerSept 2009 – May 2012• Maintained job for 2+ years and worked 18+ hours per week while attending school