

Raghavendra Saralaya

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EXPERIENCE

Automatic Transmission Engineer, IAV Automotive Engineering Inc;
Northville, Michigan; (June 2015 – January 2018)

- Implemented control algorithms in MATLAB/Stateflow to meet requirements outlined by team of senior engineers
- Assessed clutch system's pressure profile requirements by communicating with calibrators
- Tested Simulink/Stateflow control logic modules in software test harnesses, both module level and system level
- Calibrated an idle load reduction automatic transmission feature in an 8 speed vehicle to reduce torque load on the output shaft during idling

Photogrammetry Applications Engineer, Trillion Quality Systems GOM;
Plymouth Meeting, Pennsylvania; (August 2012 – May 2015)

- Collaborated with plastic surgery R&D group in quantifying effects of Botox on facial skin over time by comparing changes in strain for a given set of emotions using digital photogrammetry
- Instrumented aircraft engine tests with photogrammetry sensors for shape measurements
 - Setup involved multi-system setup and synchronous data acquisition
 - Collaborated with engineers and technicians on aircraft engine test stands to develop instrumentation method
- Trained interns and new recruits, and customers in quarterly workshops

Co-op Internship, Trillion Quality Systems GOM;

Plymouth Meeting, Pennsylvania; (March 2011 – September 2011)

- Optimised patterning techniques for skin strain measurement using photogrammetry
- Automated data post-processing and report generation using python scripting
- Assisted with measurements on concrete walls, bridge frames, tissues, bones, automobile parts, stents, meteorite particles, laser constructs and solder joints among others

Tutor and Math Mentor, Drexel Learning Centre;

Philadelphia, Pennsylvania; (July 2009 – March 2011)

- Tutored undergraduate engineering subjects such as Mathematics, Thermodynamics, Mechanics of Materials and Chemistry
- Provided mentoring in developing problem solving and group discussion skills to groups of sophomore Mathematics students

EDUCATION

Bachelor of Science and Master of Science (*Dual-Degree Program*)

Mechanical Engineering

Drexel University, Philadelphia, Pennsylvania, June 2012

- Dean's Scholar
- Master's Thesis: [In-situ Grain Scale Strain Measurements using Digital Image Correlation](#)