MY WORK EXPERIENCE

ASHWIN PUTHAN PURAYIL

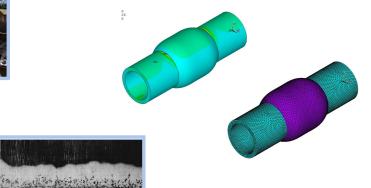


- Masters of Engineering, Mechanical Engineering. GPA: 3.8/4.00
- Master Diploma, Product Design and Analysis
- Bachelor of Engineering, Mechanical Engineering FIRST CLASS











- Awarded scholarship to pursue Masters in Mechanical Engineering at RIT.
- Worked as Graduate Teaching Assistant for FEA Lab at RIT.
- Worked as an instructor at CADD CENTRE.

VOLVO CONSTRUCTION EQUIPMENT

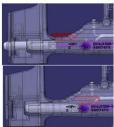
DESIGN ENGINEER (INTERNSHIP)

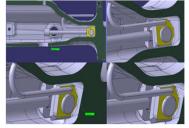




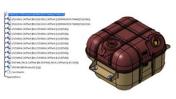
BENCHMARKING





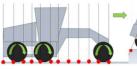


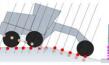
WHEEL LOADER ATTACHMENT

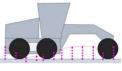


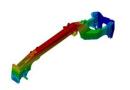


COST REDUCTION USING VB SCRIPT









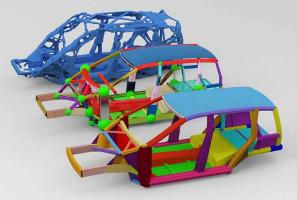
SIMULATION

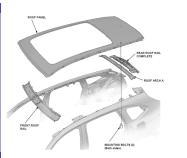
HONDA R&D AMERICAS, INC

DESIGN ENGINEER

- Designed & developed BIW components of Honda Acura vehicles using CATIA.
- Part consolidation of roof structure components using Tailor Welded Blank.
- Performed tolerance stack-up analysis and created engineering documents.
- Participated in the topology optimization studies for BIW structures.
- Worked on the platform development program, which was used in several other projects.
- Improved NVH performance by controlling the foam using resin structures at B pillar.





























TOYOTA NORTH AMERICA

TOYOTA MOTOR NORTH AMERICA

DESIGN ENGINEER

- Worked on the skid plate that brought 135k savings on trucks.
- Worked on the Assembly of prismatic HEV Lithium-Ion batteries for Toyota vehicles.
- Lead a team of 2-5 people for the build of chassis & worked on autonomous retrofit.
- Worked on the development of Lexus Kinetic seat, Tacoma, Tundra & Camry.
- Improved assembly quality by developing a new sequencing method using 3D data.
- Team Lead for redesigning conveyance system to reduce assembly build lead time.
- Contributed ideas for kaizen activity, which was implemented & funded by the company.















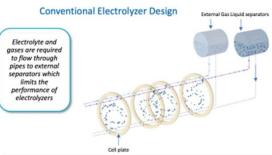




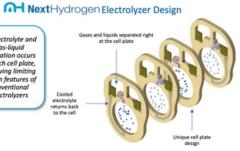




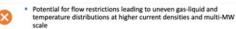














Internal gas-liquid separators in each half cell

 Decentralized gas-liquid separator ensures no fluid and gas flow restrictions across the system for higher current densities and multi-MW scale

Superior dynamic response as gases and liquids are separated right
above the cell plate.

SURFACE TENSION



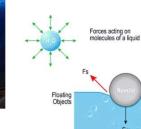




Figure = The failed bracket fracture surfaces exhibited features characteristic of environmental stress cracking (ESC). Source: Thermo Fisher

NEXT HYDROGEN PRODUCT ENGINEER



OUR NEXT ENERGY

Sr DESIGN RELEASE ENGINEER

- Designed & released structural components of battery energy storage systems.
- Worked on the development of Aries Grid which won the contract from GE Vernova.
- Actively participated in the new module enclosure for the next gen Aries Grid.







TTP LFP Cell

Top terminal prismatic LFP cell engineered for 8,000 cycles. UL certified for utility-scale applications.

Aries LFP

Available in 79 kWh and 105 kWh modules configured for stationary storage. Produced at scale in Michigan.

Customizable ESS

The entire Aries Grid system can be customized for your application.

O C



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Thank you