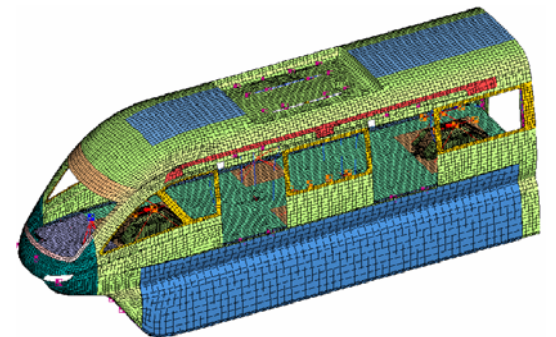
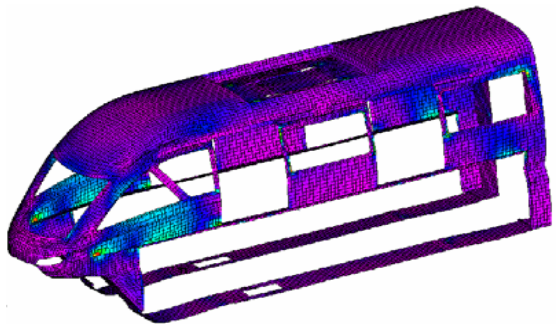
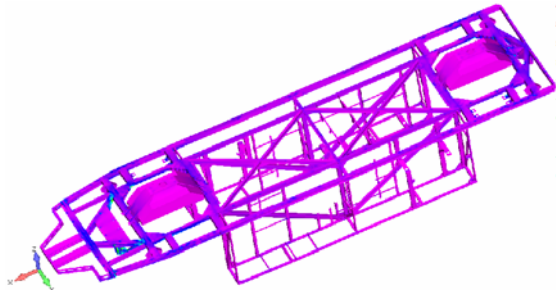


## Civil Case Study (Morin Research & Development Corp. – Scomi Gen2 Monorail)



Morin Research & Development Corp. (MRDC) is a consulting company delivering turn-key engineering and fabrication solutions for complex electro-mechanical systems such as custom machines, mechanisms, chassis, and test stands (<http://www.morin-rnd.com/>).

MRDC, along with design partner companies Sync R&D (SRD) and San Diego Composites, worked together to produce the Gen2 Monorail for Scomi Rail Berhad which is one of only three suppliers of urban monorail systems in the world. The Gen2 Monorail is the culmination of a project geared towards green transportation going by the name of Scomi Urban Transit Rail Application (Sutra). MRDC and its partners were responsible for the chassis, composite body, interior styling and design, and vehicle integration. Scomi Engineering selected all the propulsion and power systems which SRD and MRDC designed and analyzed for mounting on the vehicle. NEi Nastran was used for all the Finite Element Analysis (FEA) and engineering simulation work including the composite components. FEA was instrumental in achieving quality, budget, and time to market objectives, taking the project from the initial spec development stages to a running prototype in an impressive 12-month span.

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