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Charles Aaron P.E.

I am a named inventor on 18 granted U.S. patents. I have many years of experience managing multidisciplinary engineering teams and have personally designed and developed, as lead engineer, multiple machines to do railroad maintenance work, including but not limited to the following: a hi-rail inspection truck which creates surface scans and internal X-ray scans of railroad ties, two different types of self-unloading aggregate delivery conveyor belt trains, a rail bound bridge beam crane, rail equipment ramp car, OTM unloading machine designed to work from the top of hopper cars, automated bulk material delivery trains, plus many smaller sub-assembly systems such as ballast gates and plows. I have extremely strong problem-solving skills and a knack for innovation. I am a great team builder and motivator, and I have a history of leading by example.

Work experience

Engr. Contractor/Consultant 04/2025 to Present Self Employed

- Specializing in innovating heavy railroad and mobile, mechanical, hydraulic, electric design, integration, and automation. Also have extensive experience with Aggregate Conveying, Machine Vision systems and managing software development and integration.

Director of Engineering 2015 to 03/2025 Loram Technologies Inc. (formerly: Georgetown Rail Equipment)

- Manage and mentor large multidisciplinary teams of engineers for all mechanical, electrical, and hydraulic design and technical support for all internally developed product and service offerings of the company from concept to production and beyond.
- Assist in directing the technological direction of the company and its products and services.
- Assign and mentor department functional leads, oversee project budgets and schedules.
- Oversee project leads and the management and design of all projects.
- Manage Intellectual Property, including writing and reviewing patent applications.

Sr. Project Engineer 2011 to 2015 Georgetown Rail Equipment Co.

- Managed and mentored less experienced engineers and supervised their projects.
- Same responsibilities as Project Engineer, except for a larger number and/or size of projects.
- Managed Intellectual Property, including writing and reviewing patent applications.

Project Engineer 2005 to 2011 Georgetown Rail Equipment Co.

- Managed large projects including developing design, creating budgets and schedules for each.
- Oversaw the construction of newly designed prototype machines.
- Created 3-D models and fabrication prints for each project.

Mechanical Engineer, Owner 2002 to 2005 Charlie Aaron Consulting

- Primarily worked for Georgetown Rail Equipment Co. as a contract engineer.
- Developed designs, schedules, budgets and prototypes for multiple types of track maintenance equipment including railcar with under deck extendable ramps and car-topper tie crane.

Mechanical Engineer 2000 to 2002 Snead Research Institute

- Helped design and build a battery powered, fuel cell recharged, light rail trolley car.
- Managed design projects of multiple machines from concept to prototype build, including two types of rail-bound cranes, under contract for Georgetown Rail Equipment Co.

Laborer, Equipment Operator 1992 to 1997 Aaron Construction Company

- Built concrete bridges including: form building, dirt work and concrete work.
- Operated many types of equipment including: cranes, loaders and excavators.

Education

Student 1997 to 2000 University of Texas at Austin

- BS Mechanical Engineering
- 3.2 GPA overall, 3.5 GPA Mechanical Engineering
- Member of the Mechanical Engineering Honor Society and Society of Automotive Engineering.
- Helped design, build and drive SAE Formula race car.