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## ALAN HURD

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### EDUCATION

1975 Higher National Diploma, Mechanical Engineering, Derby and District College of Technology, United Kingdom

### EXPERIENCE

2004 – present **Associate, Parker & Associates, Inc., Ontario, Canada**

- Thermal Analysis of wheel for Rio de Janeiro project.
- Review of vendor technical proposals and preparation of equipment descriptions for carbuilder's bid proposals.

2005 – 2006 **Engineer, Boeing, Seattle, Washington**

- Responsible for stress analysis on the new 787 plane.

2004 **Contract Engineer, Cascadia Monorail Company, Seattle, Washington**

- Vehicle Engineer responsible for ensuring the Hitachi monorail interfaced with the guideway and met North American Standards.

2003 **Contract Test Engineer, Alstom Transportation., Hornell, New York**

- Prepared qualification test procedures for the MARTA vehicle re-habilitation program.

1999 – 2003 **Project Engineer, Bombardier Transportation Ltd, Ontario, Canada.**

- Responsible for all brake and suspension systems associated with Bombardier rapid transit systems.
- Specified, ordered and received brake systems for the latest Bombardier vehicles entered into service for JFK Airport and Las Vegas Monorail.
- Specified, selected and follow up work on Las Vegas Monorail gearboxes.
- Worked as brake project engineer for the Ankara Metro pneumatic brake and suspension systems and interface with doors, wiper, horn etc. using Westinghouse brakes.

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- Integrated brake systems of New Jersey's new fleet ALP locomotives with existing rolling stock.
  - Trained as a six-sigma analyst.
  - Specialist in brake systems (hydraulic and pneumatic), couplers, gearboxes and structural design.

1981 – 1998     **Engineer, Bombardier Transportation Ltd, Ontario, Canada**

- Responsible for day-to-day engineering of a variety of railway design and manufacturing efforts.
- Worked on streetcars, light rail vehicles, passenger carriage projects.
- Worked as interior project engineer for the NYCT R142 project, responsible for windows, interior sliding door, driver and passenger seats and lighting.

1977 – 1981     **Stress Analyst, British Rail Technical Center, United Kingdom**

- Responsible for analysis of vehicle body and truck stress analysis.

1975 – 1977     **Design Draughtsman, British Rail Technical Center, United Kingdom**

- Produced original detailed design and arrangement drawings for locomotives, EMUs and DMUs including structural and equipment installation

## **PROJECT EXPERIENCE**

- British Rail Mark III Coaches
- BR Advanced Passenger Train
- Vancouver ALRT and RT2000
- TTC Street Cars, ALRV
- Ankara Metro
- JFK ALRT
- MARTA Rehabilitation
- Rio de Janeiro Central Subway
- BR High Speed Train Locomotives
- TTC Scarborough LRT
- Detroit DPM
- Santa Clara ALRV
- Kuala Lumpur ALRT
- Las Vegas Monorail
- Seattle Monorail

## **PROFESSIONAL AFFILIATIONS**

- Member of Professional Engineers Ontario, Canada

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- Applied for Member of Professional Engineers New York State, USA