Starting on the right track: Metro Trains Graduate Program

Adrian Pacheco, Graduate Engineer

Shaping the Future of Railway

Thursday 14\textsuperscript{th} September 2017
Background

- Bachelor of Aerospace Engineering/Bachelor of Arts (Monash University, 2009 – 2014)
- Engineering Intern (Metro Trains, 2014)
- Graduate Engineer (Metro Trains, 2015 – Present)
Metro Trains Melbourne

- 15 lines
- 870 kms of track
- 203 six-carriage trains
- 218 railway stations
- 1500V DC Overhead system
My Graduate Engineering Program

4 x 6 month rotations

• Projects
• Infrastructure
• Engineering
• Rolling Stock

Plus several ‘Mini’ Rotations

• Operations, Customer Experience, Asset Management etc…

= 3 year ‘Railway Engineer’ program
Projects

• Grade Separations
• Melbourne Metro Tunnel
• Line extensions
• New Stations/Station Upgrades
• Major Infrastructure Renewal Projects
• Fleet Cascade
• MURL Fire Life and Safety Upgrades
Infrastructure

- Track
- Electrical Networks
- Structures and Facilities
- Signals
- Operational Control Systems (OCS)
Engineering

- Design
- Infrastructure/Project Support
- Standards
- Type Approvals
- Reports and Investigations
- Risk assessments
Rolling Stock

- 5 Major Depots across Melbourne
- Technical Investigations/Fault finding
- Reliability engineering
- Depot projects
- Work processes and instructions
Plus more!!

- Asset Management
- Operations
- Customer Experience
- Safety, Environment and Risk
- Office of the Director of Engineering
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