Shaping the Future of Railway

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Level Crossing Removal Authority
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Background

- Bachelor of Engineering in Electrical & Computer Systems (Monash University)
- Vacation Student (CitiPower and Powercor)
- Graduate Engineer (Level Crossing Removal Authority)
My Graduate Program at LXRA

- 2 year program
- 3 x 6 month discipline rotations
  - Engineering and Program Services
  - Alliances
- 3 x 2 month non-discipline rotations
  - Project Controls
  - Safety
  - Completions
- Current Rotation: Value Engineering (EPS)
Program outline

**EMPOWER**
- Induction week
- A chance to meet your cohort
- Getting you prepared for your journey with us

**ROTATIONS**
- Structured rotations over the course of the two-year program
- Rotation through business systems to broaden your experience plus rotations through your chosen discipline

**LEARNING & DEVELOPMENT**
- A series of workshops throughout the program to upskill you in technical and interpersonal skills

**GROUP BUSINESS CHALLENGE**
- Two group challenges and presentations during the two-year program
- Challenges are designed to develop your project management, problem solving and teamwork skills

**INDIVIDUAL CHALLENGE**
- An individual challenge and presentation for you to demonstrate your knowledge of the business area as well as innovate a creative solution for your organisation

**GRADUATION**
- A celebration of your journey and success through the program
- A chance to reflect on your achievements
- An opportunity to apply for future roles at LXRA
Value engineering

The Value Engineering team implements tools, process and technical improvement and innovation by:

• tackling program wide pain points
• using systems engineering principles
• leveraging, poaching, adapting previous work
• standardising design
• sharing information and knowledge
Traction power substations

- Standardised designs for Series 1
- Improved safety
- Improved program efficiency
- Ease of operation and maintenance
- Stakeholder interface management for Series 2
Digital engineering

- Collaboration with Rail Projects Victoria
- Framework strategy
- Contract requirements
Design reuse

- 3D concept development
- Parametric modelling and optioneering
- Design interface