

Sharing Knowledge

Future of Engineering

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Pavement Design Engineer

Personal profile

- Studied Bachelor of Engineering (Honours), majoring in Civil Engineering
- Started working with Downer NZ as a graduate/site engineer in 2012
- Worked on several significant infrastructure projects



- Moved into the technical space in 2015 designing road pavements for major roads in Auckland

Life as a young site engineer



Mentoring and Support

- Professional development
- Training and guidance
- Passing on experience and knowledge



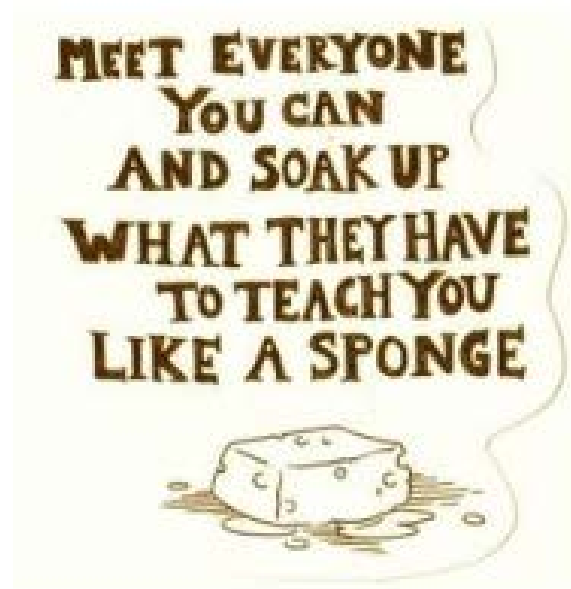
Mentoring relationship

- Sharing knowledge from mentor to mentee
- Challenges on site – dealing with difficult people
- Communication styles



Seeking advice

- Role models
 - Site supervisors
 - Project managers
- “Be like a sponge” soak up knowledge on site
- Passing on my own experiences



Sharing my experience

- Supporting new engineering graduates
- Presenting on past projects
 - Challenges on site
 - Lessons learnt
- “Nuggets of wisdom”



Inspiring the next generation

- Futureintech Programme
 - Promote engineering
 - Insight into the industry
- Presenting to school students
 - Career in engineering
 - Challenges and rewards
 - Work experiences
- Interactive learning
 - Material samples
 - Group activities



Engineering workforce

- Growing global shortage of engineers
 - 2000 graduates are required every year
 - 1500 graduates enter the market
- More initiatives need to be implemented
- Securing the engineering workforce



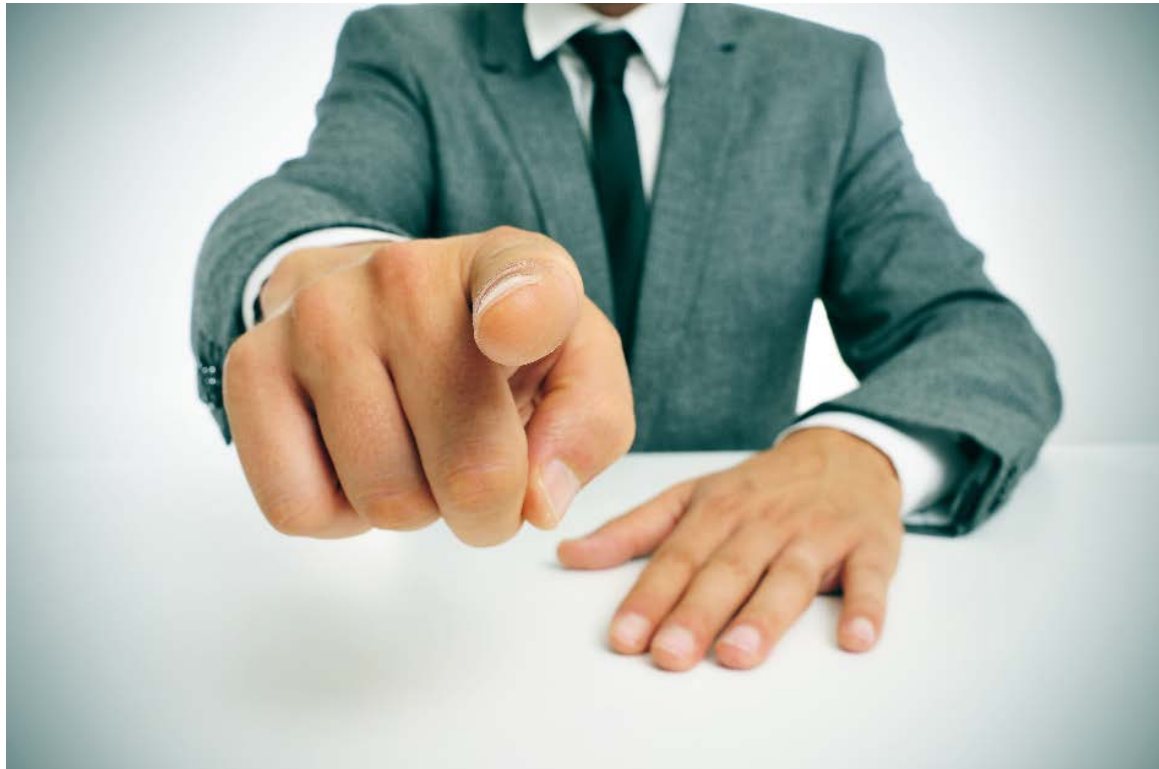
Future of engineering

- Mentoring the current and next generation
 - Engineering graduates
 - School students
- Passing on the right values
- Future challenges



Final message

What are you doing now to mentor the next generation of engineers?



Questions?

