CI11032: Creating Surface Models from Point Clouds

Presenter: Ben Coady

Title: CAD Technician

Twitter: @Ben_Coady
Email: ben.coady@ramboll.co.uk
Website: www.ramboll.co.uk

Introduction to your speakers

Key Speaker: Ben Coady

Co-Speaker: Chris Bargent

Key Speaker: Ben Coady

- Transport CAD Technician for Ramboll UK

- 2 years experience in Transport and 3 years in a Mechanical Discipline

- BTEC Level 3 in Mechanical Engineering & HNC in Civil Engineering from Southampton Solent University

- Previous Scholar of the Institution of Civil Engineers

- Been involved in both large and small projects

- Surface Modelling Champion

www.ramboll.co.uk

Co-Speaker: Chris Bargent

- Technical Associate with Ramboll UK

- Manages a Large Team of Highly Skilled Technicians

- 25 years experience in delivering large infrastructure projects and high profile architectural bridges

- Extensive experience in numerous software platforms and expert in CAD and BIM management, automation, customisation and application connectivity

RAMBOLL

www.ramboll.co.uk

AUTODESK

Class summary

- This class will show you how to convert scan data into a usable format and manipulate it. It will show you how to import that data into AutoCAD 2016. This class will also show you how to create a surface model of existing elements and how to further work with the surface model within Autodesk Inventor.

RAMBOLL

www.ramboll.co.uk

AUTODESK.

Ramboll in brief

- Independent engineering and design consultancy and provider of management consultancy

- Founded 1945 in Denmark

- 12,300 experts

- Over 300 offices in 35 countries

- Significant presence in the Nordics, North America, the UK, Continental Europe, Middle East, Asia, Australia, South America and Sub-Saharan Africa

- EUR 1.1 billion revenue

- Services across the markets:
  - Buildings
  - Transport
  - Planning & Urban Design
  - Environment & Health
  - Water
  - Energy
  - Oil & Gas
  - Management Consulting

Ramboll Geographical footprint

Ramboll markets
Ramboll main office
Ramboll office

Agenda – Learning Objectives

Surface Modelling from Point Clouds		
1	10mins	Converting scan data into a format usable and then manipulating that data using ReCap
2	5mins	Inserting point clouds into AutoCAD 2016 and a brief look at visual settings
3	10mins	Creating 3D geometry (surface model) using the existing Point Clouds
4	10mins	Adding additional elements to the surface model in Autodesk Inventor
5	Rest of Session	Q & A

RAMBOLL

www.ramboll.co.uk

AUTODESK

Key learning objectives

At the end of this class, you will be able to:

- Understand the process of converting original scan data into a useable format and manipulate the data.
- Be able to import data into AutoCAD 2016
- Be able to create a surface model of existing elements.
- Be able to import a surface model into Autodesk Inventor for addition of proposed elements

RAMBØLL

www.ramboll.co.uk

AUTODESK.

Feel Free to Tweet!!

- If you think of any questions and/or points to note during the presentation please tweet **@Ben_Coady**

- Please note the full presentation will be available for download after AU2015.

- I'm looking forward to meeting you all on Thursday 3rd December @ 1pm

RAMBØLL

www.ramboll.co.uk

AUTODESK.

Thank you!

Any Questions?

Contact: ben.coady@ramboll.co.uk
             chris.bargent@ramboll.co.uk

RAMBØLL

www.ramboll.co.uk

AUTODESK