Imagine you’re part of a crew constructing a new office building: Midway through the process, you’re on-site, inspecting the installation of HVAC systems. You put on a funny-looking construction helmet and step out of the service elevator. As you look up, there’s a drop ceiling being installed, but you want to know what’s going on behind it.

Through the visor on your helmet, you pull up the Building Information Model (BIM), which is instantly projected across your field of vision. There are heating ducts, water pipes, and electrical boxes, moving and shifting with your point of view as you walk along the corridors. Peel back layers of the model to see the building’s steel structure, insulation, and material finishes. It’s like having comic book–style X-ray vision—and soon, it could be a reality on a construction site near you.

Learn more about the history and capabilities of Augmented Reality and demo the Microsoft HoloLens at this presentation.

Chris Baze has been working at Hawaiian Dredging Construction Company (HDCC) since 2009. He has served as HDCC’s BIM Manager since 2011 and been actively using and managing software and hardware from companies including Autodesk, Trimble, and Leica Geosystems. He has been in Hawaii since 2007 when he graduated from Virginia Tech with a Bachelor of Architecture degree.
Augmented Reality for Architecture & Construction

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Credit Card #:
Expiration Date: 3-Digit CVC Code (required):
Mailing Address of Credit Card:
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