

# Medical Device Engineering

## *Presentation outline*

- \* A little bit about Medtronic and the Navigation division
- \* What is Surgical Navigation and how does it affect the lives of patients
- \* How do we engineer devices for use in surgery
- \* Starting a career in medical device engineering

### **About Medtronic**

Medtronic is the world leader in medical technology providing lifelong solutions for people with chronic disease. We offer products, therapies and services that enhance or extend the lives of millions of people. Each year, 6 million patients benefit from Medtronic's technology, used to treat conditions such as diabetes, heart disease, neurological disorders, and vascular illnesses. Since its inception, Medtronic Navigation has been on the forefront of surgical navigation solutions, guiding the industry to a higher standard of care for several clinical specialties, including cranial neurosurgery, functional neurosurgery, spinal, ENT, joint replacement and Orthopedic trauma surgeries. As the leading provider of integrated navigation and intra-operative imaging solutions, we pride ourselves on the technology, service and support we provide to more than 2300 StealthStation(r) System and intra-operative imaging customers worldwide.

### **About Brad Jascob**

Brad Jascob is a Principal Software Engineer at Medtronic Navigation. He has been with the company since 1999 and has served as a software engineer, firmware engineer, project manager and department manager in that time. Prior to his employment at Medtronic, Brad worked at several industrial automation companies in Northern Colorado. He obtained his bachelor's degree from the University of Toledo in Electrical Engineering.