

SOME MEDICAL DEVICE VIDEOS

This content is just a compilation of interesting devices. The collection was not compiled by Medtronic and does not reflect the company's views. Always read about device benefits and warnings - links are below the videos.

Reveal LINQ 2014 Heart Monitor

https://www.youtube.com/watch?v=2rF_a1e5R7c – Patient Story

<http://www.medtronicdiagnostics.com/us/cardiac-monitors/reveal-linq/>



Tristaple Laparoscopic Cutting Tool

<https://youtu.be/orSo6xtt1DI?t=35s> – How it Works

<http://www.medtronic.com/covidien/products/surgical-stapling>



Heartware LVAD Device

<https://www.youtube.com/watch?v=gNUATS8Jhuk> – Patient Story

<https://www.youtube.com/watch?v=WvRxiAla8lw> - Details



Micra Pacemaker

<https://www.youtube.com/watch?v=popEmkylAlg> – Journey of Design

<https://www.youtube.com/watch?v=L2YptxiY-JE> – Device Overview

<http://www.medtronic.com/us-en/healthcare-professionals/products/cardiac-rhythm/pacemakers/micra-pacing-system.html>



Neurostimulator – Parkinson's Treatment

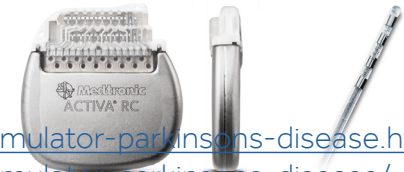
https://youtu.be/ho_81J_9Ffl?t=1m06s - Gary's DBS Story

<https://youtu.be/dbX1t9dfgVE?t=1m13s> - A Patient's Home-Made Video

<http://www.medtronic.com/us-en/patients/treatments-therapies/neurostimulator-parkinsons-disease.html>

<http://www.medtronic.com/us-en/patients/treatments-therapies/neurostimulator-parkinsons-disease/living-with/programmer.html>

<http://www.medtronic.com/us-en/patients/treatments-therapies/neurostimulator-parkinsons-disease/living-with/recharging.html>



Plasma Blade Knife

<https://youtu.be/C8BVAWe30h8?t=1m16s> – Basic Overview (Warning – Human Tissue in Video)

<http://www.medtronic.com/us-en/about/news/advancedenergy.html> - Applications in Breast Cancer

Surgery



(A LITTLE OF) HOW TO MAKE THE MOST OF YOUR TIME

This is just my personal experience! These notes haven't been created by Medtronic and don't reflect the company's views. There are plenty of tips and tricks out there - this is just one engineer's perspective on creativity, finding opportunities, and harnessing your talents.

The next few pages are an overview of my advice for those who may be interested in an innovative sort of engineering.

TRY NEW THINGS



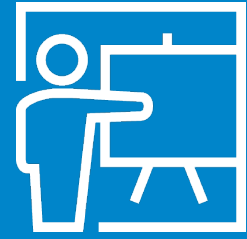
Whatever you decide to try, go in depth and understand it conceptually.

TALK TO PEOPLE ABOUT THEIR WORK



Be unrelentingly curious. Curiosity is the foundation of innovation.

ATTEND RESEARCH EVENTS



There are many free (and some paid) events. Meet people and discover research.

DESIGN
BUILD
ITERATE

WHAT MAKES A GREAT (INNOVATIVE) ENGINEER?



LOOK OUTSIDE
FOR INSPIRATION



UNDERSTAND
FUNDAMENTALS



PROBLEM BEFORE
SOLUTIONS



ALWAYS
DOCUMENT
YOUR WORK

(SOME GENERALIZATIONS OF) WHAT TO EXPECT

UNDERGRAD

- Most problems you encounter have been solved before
- Designed for you to figure out how you learn best
- Problem solving skills for technical applications
- Easy to talk about research and technology with other people
- Need to find your own mentor for IP or Papers



INDUSTRY

- Problems you face haven't necessarily been solved before
- Expected to learn from mentors and coworkers
- Also teaches you how business creates value
- Research and technology conversations limited to co-workers/NDA
- Usually provides support structure when writing IP

DO

- Form a plan early for completing classes required to graduate
- Intern with experts (learn how they think)
- Explore different learning strategies for yourself
- Keep up with current technology
- Practice being reliable and engaged



DON'T

- Never meet with your advisor
- Be afraid of cold emailing/calling
- Leave things you've only tried a few times off your resume
- Ignore the culture and progress of your desired industry
- Forget to understand your unique skills

RESUME TIPS/ INDUSTRY

1. **Beware of ATS's** – Submit an unlocked word document so the system can find key words
2. **Key Words** - Use words you've found in the Job Description
3. **Comprehensive but Relevant** – You never know what skills will help you into a role. Include your interests!
4. **Metrics** – Descriptions should be accessible, and elucidate your impact
5. **Cold-Email /LinkedIn Recruiters** – If you've hit a wall, not getting replies, try to talk to a human and send a pretty PDF of your resume
6. **It's OK to Use Connections** – It's ok if they're two or three degrees away from you, as long as the mutual connection can vouch for you
7. **Do Your Homework** – Understand the company, its mission, and the types of products and services it provides
8. **Plan Ahead** – If you have time, look at descriptions of roles you want and acquire those skills while you have time
9. **Be Persistent** – The skill with the greatest returns

