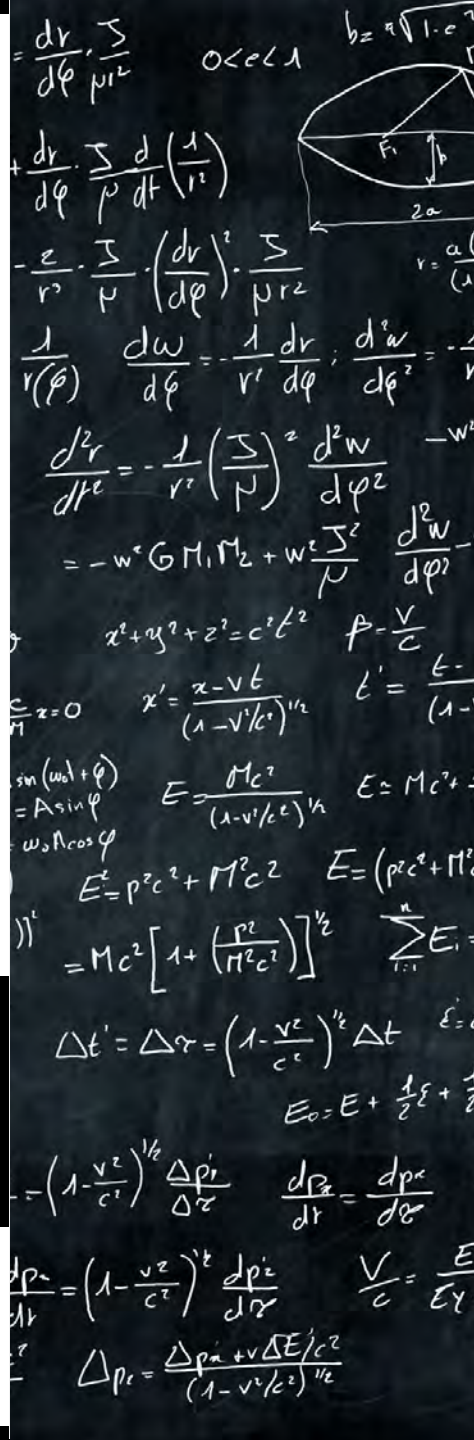
PHYSICS TO CONSULTING

And a stop inbetween

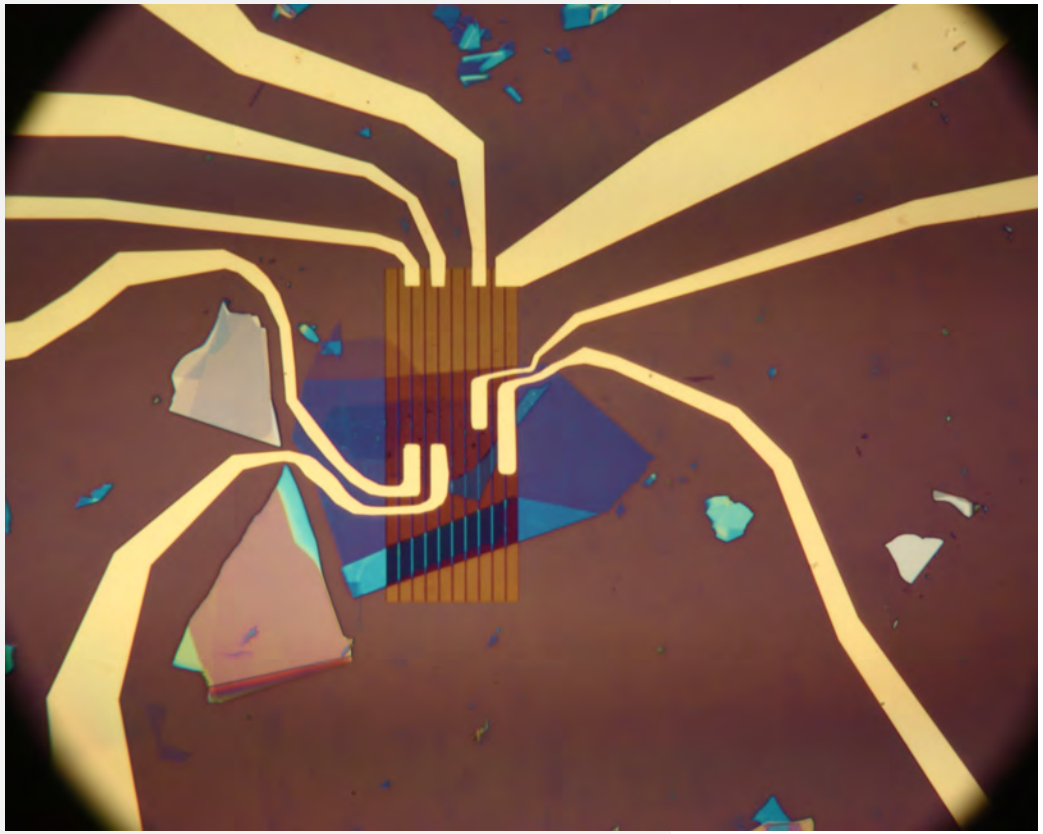


BACKGROUND

B.S. in Physics in 2016

- Comprehensive Track
- Minor in Applied Math

- Research Assistant in Xu Lab
  - Low Dimensional Quantum Optoelectronic Research Group
- Research Assistant at the Molecular Analysis Facility(MAF)
  - Learned about Electron Microscopy



Source:
https://www.nature.com/articles/nnano.2014.26

ALLEN INSTITUTE FOR BRAIN SCIENCE

Systems Design Engineer

- Day to day: Built and maintained six custom transmission electron microscopes
- Systems engineering is…
  - An **interdisciplinary** field that focuses on how to design and manage complex systems over their life cycles
  - It utilizes systems thinking principles to organize this body of knowledge

Source: https://www.biorxiv.org/content/10.1101/791889v1

ARCADIS – DESIGN & CONSULTANCY FOR NATURAL AND BUILT ASSETS

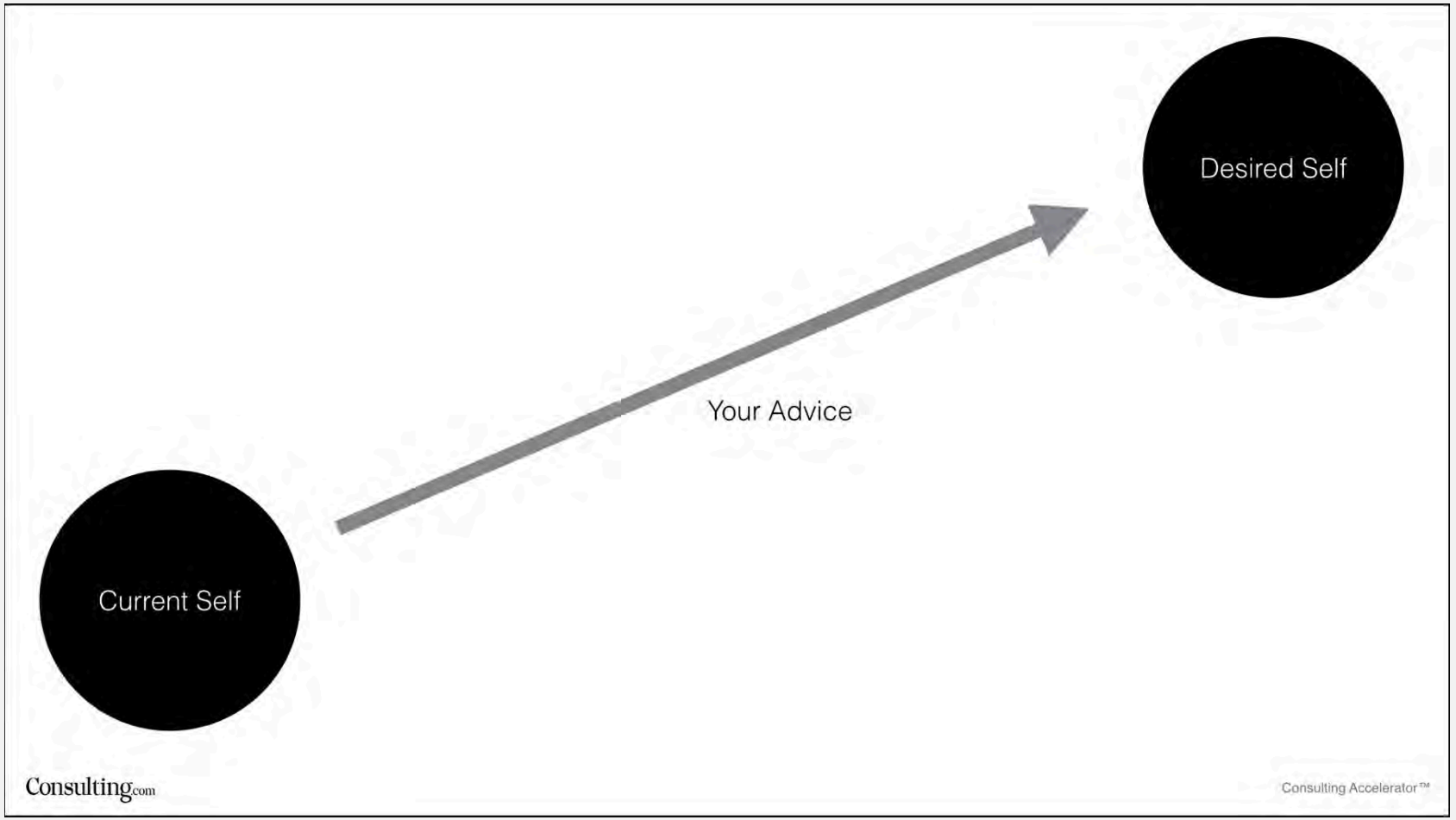
Management Consultant | Project Manager

- Day to day: Help manage a team of consultants implement commercial enterprise-wise environmental health safety, sustainability, risk and operational excellence software to our clients
- Consulting is…

Source:
http://www.kfupm.edu.sa/departments/ehs/default.aspx

DEFINITION OF CONSULTING

Help people **solve problems** and move from their current state to their desired state.



HOW DOES THIS RELATE BACK TO PHYSICS?

- Physics – Something moves from one state to another and something happens
  - An apple falling from a tree
  - An electron moving from an excited state to a ground state

Source:
https://www.flickr.com/photos/hikingartist/6217869031

TAKEAWAY

- Physics gives you the confidence and problem-solving skills to tackle and solve any problem in any medium
  - I solve problems people didn’t know they have