

TONY (HAN) DENG

Mechatronics Engineering
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github.com/Soverne
tonydeng.me

SKILLS:

Languages:

R, C++, Python,
Javascript, HTML,
CSS, Git, RobotC

Frameworks:

Shiny, Piston, Hugo,
NumPy,
BeautifulSoup,
Bootstrap,
RMarkdown

Other:

Linux, AutoCAD,
Solidworks,
Machining, Soldering

INTERESTS:

- Human augmentation
- Automating everything
- Cooking
- Sportfishing
- Jarvis
- Films

EDUCATION:

University of Waterloo

- Funding manager for Brain Computer Interface team
- Built an automated pharmacy using Lego NXT and RobotC

EXPERIENCE:

Total Portfolio Management Co-op – CPP Investment Board, May – Aug 2016

- Built web-based macroeconomic visualization dashboard using Shiny for R
- Wrote user-guide for financial modelling, forecasting and visualization using R
- Conducted quantitative analysis on alternative representations of inflation

Software and chassis engineer – First Robotics Team 4719, Sep 2012 – Apr 2015

- Wrote autonomous code in RobotC for VeX robot competition
- Implemented flexible-membrane-ball-transfer mechanism on VeX chassis
- Designed, and machined aluminum chassis components on competition robot

Co-founder, CTO of Innovo – Junior Achievement Alberta, Oct 2013 – Mar 2014

- Built and debugged website for company using HTML and CSS
- Managed website and IT team of six

PROJECTS:

tonydeng.me – Personal website and blog

- Applied Hugo, HTML, and CSS to build a personal website and blog
- Regularly publishing alternate perspectives on technology

CECA-Scrape – Web scraping exploration with Python

- Used BeautifulSoup and NumPy to disseminate info session calendar

AWARDS:

- FIRST Robotics Western Canadian Regional Champions 2015
- Best overall project and Best application of scientific principles at Shad Cup 2014
- Schlumberger Founder's Scholarship for high school academic achievement

EXTRACURRICULARS:

Shad Valley Dalhousie 2014 – Shad Valley International, Summer 2014

- Designed and build MVP of automated odour-eliminating compost bin
- Refined RFID wireless power management system for Shad Cup 2014

Executive and Advisory Board – Youth Volunteer Corps, Oct 2012 – Jun 2015

- Recruited and managed volunteer projects for over 300 volunteers