

# Connor Davey

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## SKILLS

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- Java, C, nesC, Python, JavaScript, C++, and Haskell
- Java A.P.I. building and use with ClassLoaders
- embedded systems programming with TinyOS in nesC
- programming language and compiler design

## PROJECTS

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- "Aby" research project at A.S.U.'s IMPACT Labs** September 2015 - present
- bytecode that encodes arithmetic instructions (bitwise and mathematical)
  - build for embedded systems for secure cross-platform on the fly programming and executable flexibility
  - compiles from plain C code; interpreted by C module
- "\English" Barrett Honors Thesis project** 2015 - present
- highly functional programming language
  - built to largely look and feel like natural English
  - compiles to x86\_64 NASM Assembly; highly efficient and able
- "Corundum" Project Lead in A.S.U.'s Software Developers' Association (SoDA)** September 2014 - present
- Java-based Minecraft server-side modding A.P.I.
  - built for efficiency and simplicity
  - set up for event-based programming with JSON config file handling, command parsing, and more

## EDUCATION

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- Barrett Honors College student at Arizona State University** 2011 - present  
current GPA: **3.32**
- majoring in Computer Science (Software Engineering) and Microbiology
  - elected SoDA Project Manager for 2015-2016 academic year
- BASIS Tucson Charter School** 2003 - 2011
- graduated with High Honors with senior thesis: "Biosurfactants"
    - studied biosurfactant-producing bacteria for mass production potential
    - produced biosurfactants able to mitigate oil spill damage and soil contamination
    - Dr. Raina Maier's lab in the University of Arizona College of Agriculture and Life Sciences
  - member of BASIS's first FIRST Robotics team, "The Bit Buckets"
    - competed in F.R.C. world championship in St. Louis, MO, as Regional Rookie All-Stars

## EXPERIENCE

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- Minecraft modding teacher at Desert Community Robotics** Summer 2015 - present
- teach kids Minecraft modding and other coding in private lessons and group classes
- IMPACT Labs student worker under Dr. Sandeep Gupta at Arizona State University** Summer 2014 - present
- programming microcontroller and Android app for mobile health monitoring
- Minecraft server administrator and CraftBukkit/Spigot plugin author** 2012 - present
- running and administrating a Minecraft server
  - written a variety of Bukkit plugins using knowledge of Java
    - most popular plugin, myUltraWarps, has +9,000 downloads
- KEYS Program paid internship at BIO5 at the University of Arizona** Summer 2011
- selected as one of 50 students statewide to aid research teams
  - analyzed mountain lion microsatellites in genetic material for determining the risk of inbreeding between populations separated by I-10 and presented results

## AWARDS AND ACCOMPLISHMENTS

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- Hack Arizona "GridLock" team** March 2015
- won Sustainability Award and Metropia-sponsored award
  - met C.F.O., C.T.O., and founder of Metropia, Yi-Chang Chiu
  - <https://medium.com/hack-arizona/hack-arizona-spring-2015-winners-d3bc5c9a2ab>
- Dean's list member** Spring 2014
- A.P. Scholar with Distinction** 2012
- Student of the Year in various subjects**
- Biology Student of the Year 2009-2010
  - Music Student of the Year 2008-2009
  - Spanish Student of the Year 2007-2008
- 3rd Degree Black Belt** awarded 2006