Pathway to a Successful Engineering Education @ SSU!

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More Information:

Internship positions: [http://web.sonoma.edu/engineering/jobs/](http://web.sonoma.edu/engineering/jobs/)
McNair scholarship: [http://web.sonoma.edu/mcnair/](http://web.sonoma.edu/mcnair/)

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### Skills Acquired While Studying in the EE Program @ SSU

#### Software Skills

- **Programming Languages**
  - Python/Numby/Qt/etc. / SciKit (for machine learning)
  - C/C++
  - Assembly
- **Software Packages**
  - Visio / InkScape / Block diagram
  - LabView / OpenCV
  - Matlab
  - Fusion 360 / Solidworks / AutoCad /etc.
  - Keil / Eclipse / MPLAB
  - Eagle PCB / Altium / Kitkat
  - Spice / Multisim
  - Schematic Capture
  - App Inventor / Android Development

#### Hardware Skills

- Arduino / PIC
- Raspberry Pi / Beaglebone
- Oscilloscope
- Power supply
- Function generator
- Circuit debugging
- Spectrum analyzer
- Network analyzer
- Soldering
- 3-D printer & Laser cutters

#### Soft Skills

- Presentation skills
- Communication skills (oral and written)
- Teamwork skills
- Leadership skills
- Organization & Project Management skills
- Self-learner
- Community involvement
- Critical/system thinker
- Problem solver

### Frequently Asked Questions

- **How can I learn about Internship positions?** Start with [http://web.sonoma.edu/engineering/jobs/](http://web.sonoma.edu/engineering/jobs/)
- **How can I learn about summer research opportunities?** Ask a faculty. Learn more: [http://bit.ly/2JDvzM8](http://bit.ly/2JDvzM8)
- **When should I start thinking about graduate school?** Your sophomore year! Ask your advisor and talk to the MSCES graduate coordinator or contact the department chair. Learn about 4+1 program. Consider applying for McNair scholarship: [http://web.sonoma.edu/mcnair/](http://web.sonoma.edu/mcnair/)
- **Where can I go if I need extra help with my courses?** There are many tutoring opportunities available contact Dr. Kassis for more information.
- **What is I-Corp?** We highly encourage our EE students to participate at CSU I-Corps entrepreneurship competitions. Learn more here: [http://www.csuperb.org/csuicorps/](http://www.csuperb.org/csuicorps/) . Talk to the Department chair for more information.
- **How can I write an effective resume?** Attend IEEE Club workshops. You can always contact your advisor for more information.
- **What are skill building workshops?** Consider attending workshops on resume building, CAD tools, 3D printing, PCB design, LabVIEW, etc.
- **How can I get involved with helping the department?** Ask club president or the Department chair.