117 Oldcastle Lane
Alameda, CA 94502

BRIAN SAKHUJA

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EDUCATION

| **Villanova, PA** | **Villanova University** | **August 2014 - Present** |

- B.S. in Electrical Engineering and minor in Computer Science, May 2017 (expected). GPA: 3.53.
- Awarded Dean's List for Fall semester 2014, Spring semester 2015, and Fall semester 2015, Spring semester 2016.
- Relevant coursework: database systems, machine learning, microcontrollers & applications, MATLAB, antenna and transmission line design, signal processing, electrical communications, system models & control, data structures, analysis of algorithms, Java, C, C++, Python, SQL.
- Focus on embedded systems and control.
- Activities: Senior design project (in progress): haptic navigation device for the visually impaired, general manager of radio station WXVU 89.1 FM, Institute of Electrical and Electronic Engineers member.

| **Berkeley, CA** | **University of California, Berkeley** | **June 2015 - August 2015** |

- *Summer Session:* Completed coursework for computer science minor: Java, data structures and algorithms, programming methodology, and discrete mathematics.

| **La Jolla, CA** | **University of California, San Diego** | **September 2013 - June 2014** |

- Attended for one academic year.
- Relevant coursework: C, analog design, digital design.

| **Stanford, CA** | **Stanford University** | **June 2012 - August 2012** |

- *Summer Session:* Completed coursework in introductory computer science class using Java.

EMPLOYMENT

| **Villanova, PA** | **WXVU 89.1 FM Villanova Radio** | **September 2014 - Present** |

General Manager   *April 2016 - Present*
- Redesigned website, redesigned logos for social media and merchandise, created a wiki page to serve as a step by step guide for new DJs. Reorganized and cleaned the station.
- Created and maintained strong social media presence on Facebook, Instagram, Twitter, Soundcloud, Mixcloud, and Snapchat.
- Conduct official station correspondence with FCC, supervise all station members and maintain overall appearance.

Technical Director   *September 2014 - April 2016*
- Built new computer for our station. Installed new automation software and trained DJs to use it.
- Performed weekly maintenance on equipment and maintained logs of FM transmitter readings.
- Assisted student DJs in creating station IDs for their shows in Ableton Live.

| **Philadelphia, PA** | **Villanova Tech Crew** | **August 2014 - Present** |

Crew Member
- Set up various equipment for live performances including mixing boards, amplifiers, speakers and speaker stands, microphones and microphone stands, and XLR cables.

SKILLS & EXPERIENCE

Projects
- Fitness tracker app for iOS (in progress)
- Haptic navigation device for visually impaired (in progress)
- Redesign for WXVU's website

Programming Languages & Skills
- C, C++, Python, Swift, iOS Development, Xcode, Java, SQL, MATLAB,

Operating Systems
- Windows, Linux/Unix, Mac OS, Ubuntu

Software
- Microsoft Office 365, Adobe Acrobat, Google Docs
- Xcode, Sublime Text
- MATLAB, Simulink, Altera Quartus II, NI Multisim, NI LabVIEW, Keil uVision5, Weka

Laboratory
- Arduino, Raspberry Pi, oscilloscope, logic analyzer, bode analyzer, signal generator, solder, multimeter