**Joel Darryl (JD) Ingal**

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**EDUCATION**

**University of California Irvine**

Bachelor of Science: Computer Engineering              **June 2019**

**Relevant Coursework/Knowledge**

* Digital Systems / Digital Logic Design
* Data Structures & Algorithms / Data Management
* Agile/Waterfall Software Development Cycles

**WORK EXPERIENCE**

**Dynalloy Inc**, Irvine, CA

Electrical Engineer **September 2019 - Present**

* Developed and updated machine software in C/C++.
* Revealed redundancies and flaws in machine software and proposed solutions.
* Designed and wired custom company PCB’s.
* Maintained technical procedures, documents and schematics for various devices.
* Troubleshot faulty products and company automations.

**PROJECT EXPERIENCE**

**Drone Building Project,** University of California, Irvine

*Team Leader / Computer Engineer*                                                                  **Sept. 2015 – Dec. 2015**

* Collaborated with a 4-student team to design and develop a drone from concept to prototype.
* Established weekly team meetings, goals, and deadlines throughout the competition.
* Applied unique electrical fabrications and hardware to cater to our design.
* Achieved top 4 in the UCI’s ENGR 7A Drone competition.

**Cellular/Radio Signal Amplifier,** University of California, Irvine **Sept. 2018 – March 2019**

*Software Engineer*

* Coordinated with a 5-student team of various engineering professions to design and assemble a working cellular and radio signal amplifier.
* Adjusted and compiled the software necessary for the device’s BladeRF Transceiver to receive and transmit a signal at a requested frequency.
* Decoded and demodulated a received signal from a GNURadio source to a 44.1 kHz tone.
* Organized the information and material needed for presentation.

**RELEVANT SKILLS**

* **Operating Systems: Unix, Windows 7/8/10.**
* **Programming Languages: Python, Java, JavaScript, C, C++, Basic C#, SQL, Basic HTML,** SystemVerilog, 8051 Assembly.
* Software Applications: Microsoft Office, MS Visual Studio, Silicon Labs IDE, EAGLE, GitHub, LaTeX, SolidWorks, OrCAD PSpice, Adobe Creative Cloud.
* Device Familiarity: FPGA, PCB, Microsoft Laptops/Desktops.