Cornato Ron Vella

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EDUCATION

UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK
Bachelor of Science Mechanical Engineering, Minor in Mathematics, December 2015
Concentration in **Aerospace** and **Sustainability** GPA 3.12/4.0

LAGUARDIA COMMUNITY COLLEGE, CITY UNIVERSITY OF NEW YORK
Associate in Science Mechanical Engineering, December 2013 GPA 3.373/4.0

CAREER FOUNDRY,
Certificate in Web Development/Full Stack Engineer, Expected July-August

EXPERIENCE:

General Atomics-ASI, San Diego, California
Airworthiness Engineer (Associated Engineer), **07/18/2016-Current**
Provided direction, formulated plans for solution(s) development, documentation, as well as meeting various compliance, reports, and safety standards of Unmanned Arial Surveillance Systems(UAVs)

- Formulated plans and guided the development and implementation of engineering solution(s) including deployment, resource requirements, testing, documentation, integration, compliance and safety.
- Assisted in the development of new or expansion of existing business opportunities.
- Planned and coordinated the maintenance of engineering solutions including, documentation, reporting, meeting minutes, publishing, and making technical and other presentations to ensure viability of the solution(s).

Department of Energy, Solar Decathlon, University at Buffalo Team, Buffalo, New York
Measured Contest Captain, 5/14-8/15
Selected as 1 of 20 schools to participate in a DOE national sustainable house competition

- Designed system type/layout of both HVAC and plumbing with Revit and Energyplus
- Oversaw 10 volunteers in Mechanical, Electrical, Plumbing (MEP) systems
- Saved 18” of ceiling space with a unique HVAC design
- Won second place in Solar Decathlon 2015

NASA Micro-G Next*, Houston, Texas*
Student Engineering Designer and Researcher 02/15-08/24/15
Design and build a specimen grabber for astronauts that utilizes singlehanded operations

- Collaboratively worked together in group of 3 to finalize design
- Designed testing procedure for Neutral Buoyancy Lab
- Composed Ops Plan (OP) on how Quad Claw works
- Assisted in 3D Printing 3D parts using Makerbot Replicater 2X and Printerbot Metal plus
- Patent pended design and Received NASA Certificate of Completion

NASA and US AIRFORCE, UB NANOSAT, Buffalo, New York
Team member of both Thermal and Science subgroups 07/14-5/15
To design and build a small satellite ‘GLADOS’ to track space debris

- Developed testing apparatus of heating and cooling chamber to test CCD
- Administered focal length shift test for CCD of camera
- Manufactured camera mount in machine shop using Band Saw, Boring Tool and CNC

SKILLS

Computer: C++, Matlab/Simulink, AutoCAD, Creo, Pro/Engineer, Inventor (basic level), Revit, SAP2000, LabView, Arduino, Adobe Illustrator, Excel, Linux libre office, Google Docs, Ni Multisim, Python 2.7, Mathematica (basic level), Wolfram alpha, HTML, CSS, Bootstrap, JavaScript (basic level), Ruby/Ruby on Rails (basic level)
Languages: English, Maltese
Machine Shop Tools: Makerbot 3D Printer, Band Saw, Boring Tool, CNC, Bridgeport, Lathe

PROFESSIONAL AFFILIATIONS/ HONORS

UB SEDS, ASME, Order of the Engineer SUNY IT BAJA SAE 2012, Honors SUNYIT, Society of Hispanic Professional Engineers (SHPE); Battle Bots Lead Assistant, National Society of Black Engineers (NSBE); community service, Equal Opportunity Program (EOP) 2011-2015