

Mr. Guglielmo Fonda

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EDUCATION

NYU Abu Dhabi

Abu Dhabi, UAE

Bachelor of Science (in progress), GPA: 4.0/4.0

Declared major: Mechanical Engineering

August, 2020 – Expected May, 2024

United World College

Trieste, Italy

IB Score 41/45, Math HL 7/7, Physics HL 7/7

August, 2018 – May, 2020

PROJECTS AND RESEARCH

App Development

September – November, 2020

- Developed, as a team project, a functioning chemistry instruction app using Unity AR
- Animated animated 3D models of atoms and famous reactions which can be very abstract for young kids
- Designed app UI and coded the C# scripts for the app which can be used with any smartphone's camera

Water Rocket Optimization

February – October, 2019

- Fabricated experimental set up (launcher and rocket) and data collection setup (camera and pressure sensors)
- Wrote a flight simulation for the rocket to validate experimental data
- Analyzed the experimental data and determined the most effective ratio of propellant to load

Radon Gas Investigation

January – June, 2019

- Assessed the effect of ventilation on the concentration of carcinogenic Radon gas in closed basements
- Collected data using β particle sensor over a two-weeks period
- Deduced that with simple and practical ventilation the concentration of Radon drops by 50 % in 70 minutes

LEADERSHIP AND VOLUNTEERING EXPERIENCES

Science for Kids | Volunteer

September, 2018 – February, 2020

- Taught a weekly class to over 500 kids from local elementary schools
- Prepared interactive presentations about science and sustainability centered around hands-on experiments
- Practiced leadership and effective communication skills by coordinating a twelve-member's team

Trieste Next | Volunteer

August - September, 2019

- Led multiple sessions open to the public (kids) with the theme of "The periodic table"
- Prepared interactive presentations and experiments about paper chromatography, spectroscopy, trends and properties of elements
- Stimulated a very positive response in the kids who were engaged and their teachers

Math Olympiad | Club Leader

- Led Math Olympiad Club by preparing by-weekly preparatory problems *September, 2017 – February, 2019*
- Achieved the best regional score in the Math Olympiad *November, 2018*
- Nominated to be leader of the math Olympiad school team, reaching the national stage *September – May, 2017*

SKILLS

Languages: Italian (*Native*), English (*Fluent*)

Software: (*Proficient in*) Fusion360, Matlab, Visual Studio, Unity AR, Google Suite, Microsoft Office, Overleaf (*Intermediate in*) GitHub, Atom, Linux

Programming languages: (*Proficient in*) C++, L^AT_EX (*Beginner in*) Python, HTML