

Introduction:

Hello, we are Nicole Racca and William Aaron, two undergraduate students from Worcester Polytechnic Institute (a university in Massachusetts) who work with Fundesteam Corporation in Panama City, Panama for our Inter-Qualifying Project. Our project is to create tutorials and resource packs for creating virtual learning content, in order to help educators adapt to this new wave of online education. We would like to interview you about your experiences with online learning.

Date: September 16, 2020

Interviewed: Densis Roniel Hernández

Professional Title: Bachelor of Mathematics, Secondary Teacher, Postgraduate in Difficulties in Mathematics

Any information you share with us may be completely confidential and will only be used for research purposes with your permission. We will not identify you by name in any of our writing if you do not consent to being cited. If you prefer not to quote, you have the option to remain anonymous.

Consent questions: Yes No

Do you prefer to keep it confidential or can we use your name on our report? No
Would you like us to share our work with you once it is finished? Yes

If we ask you a question that you don't want to answer, feel free to skip it.

Interview Questions:

Question: What is your level of experience with education in general? (i.e., how long have you been teaching? Do you have any certifications or degrees in teaching?)

Response:

15 years in education, both public and private. Teaching staff in secondary education with a specialization in Mathematics.

Question: Are you currently teaching online classes for education or have you taught online in the last six months?

Response: In the private system since March and in the public system at the end of July.

Question: How long have you been using online education? How long was your most recent time of teaching online?

Response: An online period of 200 minutes a day in private. In the public less time due to the little connectivity.

Question: Through what process is your content distributed to students?

Response: Share documents in real time, forms, emails, software applications online.

Question: What age groups did you teach when teaching online, what demographic?

Response: 7th to 10th grade students.

Question: What subject or subjects did you teach during this time period?

Response: Maths and physics.

Question: What are some examples of the types of content you have created for online education on this topic? (i.e. live lectures, videos, articles, interactive applications)

Response: I have used geogebra apps, microsoft forms test designs, and khan academy.

Question: Describe your typical "lesson" in this context.

Response: Who practices, studies twice.

Question: What aspects of your online learning content, if any, involved asynchronous learning?

Response:

In these subjects, learning must be in real time, so that students can interact with each other with each strategy that each one could implement in solving problems, for this telegram channels are used to share their problem solved, explaining to through shared videos of explanations so that

they can guide each other.

Question: What aspects of your online learning content, if any, involved synchronous learning?

Response: In the case of theory, in general, many times they do not need to be explained, because it is understood and is easy to understand and handle.

Question: What is your process to prepare for creating your online learning content? How long does this process take on average?

Response: Prepare a document in real time, sometimes a couple of hours (2hrs), but as it is in real time as a specialist I must be prepared at the moment for any doubt that was not planned. For that digital whiteboards such as jamboard, Microsoft whiteboard are used.

Question: What, if anything, works well with creating your content online?

Response: Everything must work well when you plan it and they find their solution, as it is in real time you must be able to solve problems even if you have not planned it, for that I must be prepared.

Question: What are the resources that you regularly use to create this successful eLearning content?

Response: He used khan academy, jamborad, virtual textbooks, as well as very common math software.

Question: What, if anything, are some of the challenges you face when creating online learning content?

Response: If they are poorly prepared, there is a lot of confusion in the student and the other is taking information to be copied. That is fashionable according to artificial intelligence.

Question: Can you think of a resource that, if you had access to it, would help alleviate some of the challenges of creating content online?

Response: I think maybe to do different exercises for the boys, so that the copy is minimal, but this in technology has good things and also bad things.

Question: How do you communicate with your students? Either / both synchronously or asynchronously?

Response: Video calls by zoom, meet and activities by khan academy.

Question: What, if anything, works well with your communication with students?

Response: Sometimes you have problems in the connectivity system, bad signal and problems in your devices.

Question: What are some of the challenges you face when communicating with students?

Response: Finding initiative in them, but I see that youth do not take advantage of the benefits of access to information, we must cultivate this generation, I always remember Albert Einstein's phrase, technology would make man mediocre, if it takes over everything.

Question: What is your method of determining how much a student has learned?

Response: Oral questions and interrogations.

Question: As an educator, do you believe that online education is successful in teaching your students specifically? Do you think you are successful in general?

Response: It all depends on the will of the human being to want to learn by his own means.

Conclusion:

The challenge now is to create a virtual curriculum for virtual education focused on our educational system.

Thank you very much for taking the time to send us responses and participate in our research..

Is there anything else we haven't talked about yet that you would like to cover?

If you have anything else you would like to add, you can contact us at the email address gr-fsteam20@wpi.edu. Thanks for your time.