

DRAFT Proposal to OCASC to consider introducing 3-D Printer Technology as a standard feature in all OCDSB middle/high schools within 3 years (by 2022)

Proposed by: Priyantha Wijeweera (parent representing Bell HS School Council): **Date:** May 06, 2019

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Proposal Background:

1. The Bell HS school council discussed and successfully implemented a proposal to introduce the 3D Printer Technology. Now we have three 4-D printers and, a motivated group of Bell students have put together a 3-D Printer Club. One of their student reps made a presentation at the last school council meeting (April 29, 2019), and explained how the club was formed and their intended future activities.
2. Parallel to the discussions at Bell HS, one of the Bell parents (Priyantha Wijeweera) communicated with all the school board trustee candidates of the 2019 Ottawa municipal election. We received some positive feedback from several of them including the trustee of Bell HS (Rob Campbell). Upon invitation by Mr. Campbell, Priyantha had a meeting in January, 2019, and the suggestion of the trustee was to send a proposal through OCASC (as opposed to having a top-down approach).
3. Priyantha attended the last (April, 2019) OCASC meeting. And, considering the success of the idea at the Bell HS as a guideline, he presented this proposal idea to be considered at the OCASC meeting. Priyantha promised to compile a formal (draft) proposal, which would be circulated among the OCASC members, so that it would be considered for in-depth discussion in the next (May, 2019) meeting.
4. The 3D printer technology has applications in almost all academic fields at school and university levels. (i.e. Visual Arts and Sciences such as Construction Tech, Physics, Chemistry, Maths). Furthermore, as revealed by a recent countrywide study, Ontario students bottomed the rank in Mathematics. The 3D printer tech could be a valuable long-term tool in addressing the issue.
5. This proposal should be assessed within the OCDSB's Strategic Plan: *"A culture which develops creative, confident and engaged learners who model the Characteristics and Skills expressed in our Exit Outcomes for graduates."*

What is Required from OCASC Now:

1. Please circulate this draft proposal among all relevant stakeholders for their professional insights and suggestions, so that Priyantha would be able to compile a document to be available at the next OCASC meeting.
2. Chair/Secretary of OCASC: Could you please allocate about 10 minutes in the Agenda of the next (May, 2019) meeting, to have a professional discussion with the view of incorporating ideas to the proposal. Then the final document could be sent to the trustee(s) / OCDSB by the end of May, 2019.

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ANNEX:

The following are some relevant excerpts from the Bell HS Council's March-2019 meeting minutes. If you are interested in checking the minutes of the school council, please check the weblink:

https://bellhs.ocdsb.ca/school_council/minutes

Principal's Report: Steve presented the following report (March 2019):

• **Update on 3D Printers:** There are now three 3D printers at Bell for Grades 7-12 students. There is one printer in the intermediate wing and two in the technological design department (Grades 9-12). • Steve said that the students are engaged and excited about these printers. He is impressed by the students' creativity, critical thinking, and complex designs; students like the immediate results and instant feedback. There is great collaboration, engagement and excitement! • Intermediate teachers will visit Grades 9-12 technological classes to observe, then meet with technological teacher to receive required professional development/training regarding software, 3D printer, and location. • Steve found the money in his budget to pay for these printers.

Other Items:

3D printers: Priyantha thanked Steve for finding the money in the school budget for the 3D printers. He volunteered to help with the 3D printers. At the last Council meeting on February 25th, Fred said that his son was hoping to get a 3D Club going which would provide support services to other school clubs similar to what the Audio-Visual Club does. Since then, Fred's son has met with Students' Council and there is much support for making maximum use of these printers. One suggestion is to perhaps make key chains for the various school clubs.