

New York

November 18, 2018

George I Fomitchev

CEO and founder of Endurance

Dear Mr. Fomitchev,

I appreciate your offer to donate a 2.1 W laser at our school. The laser, to be donated by Endurance Lasers, will be used in the photonics laboratory at Photonics Systems Laboratory, Department of Electrical Engineering, The City College of New York, for undergraduate student projects.

In particular, we intend to incorporate it in direct optical-engraving systems for hard materials. Students will experiment with laser power and repetition rates to develop optimized parameters for engraving on a variety of materials. Pattern quality, e.g., clean cut, depth of cut, will be evaluated.

The laser will also be used in combination with amplitude masks and/or spatial light modulators to perform structured patterning in soft materials (e.g., polymers). The beam will be increased in size and will be modulated spatially. The spatially modulated beam will be projected on the surface of soft materials. Students will evaluate the quality of the patterned optical etch at different powers, repetition rates and image magnifications.

Nicholas Madamopoulos, Ph.D.

Associate Professor

Department of Electrical Engineering

The City College of New York