PRIME LIGHTWORKS INC.
JOB DESCRIPTION - INTERNSHIP
PRODUCTION DEPARTMENT

Intern Title: Prototype Development Intern
Production Prototype Manufacturing Development

Services to be provided by Intern may include the following:
Intern shall have the role of Prototype Development Intern, reporting to the Production Manager of the Company.

(Production) Perform mechanical/machining manufacturing activities relating to the propulsion system radio frequency (RF) resonant cavity thruster, including engineering HW/SW of milling and/or lathe machines, analysis of design drawings and development of machining sequences, advising of management and engineering for materials and tooling, monitoring machining performance and reporting to management, maintaining safety program including clean work areas,

(Engineering, Prototype Manufacturing) Perform mechanical machining activities relating to the propulsion system radio frequency (RF) resonant cavity thruster ("RFRC"), including HW modeling, machining and manufacturing of the resonant cavity, including:

- Development/production, optimization of the RF resonant cavity ("RFRC") build procedure for materials, tooling, machining, and assembly
- Utilization of multi-axis milling and/or lathe machines to manufacture the RF resonant cavity ("RFRC") within design drawings tolerances
- Operation of the production HW/SW configuration, including setup of milling and/or lathe machines and materials, and reporting of manufacturing results
- Development of hardware (HW) manufacturing equipment specifications and provide recommendations for purchase

(Quality) Perform prototype quality inspection activities relating to the propulsion system radio frequency (RF) resonant cavity thruster, including facilitating the inspection process of mechanical parts, receiving inspections for incoming materials and tooling, final inspections of machined parts for conformance within design drawings tolerances, identifying and separating all non-conforming parts, analysis and/or troubleshooting of machining performance.

(Requirements) Preferred qualifications and experience:

- Enrolled undergraduate degree candidate in physical sciences or engineering
- Machining certification, PCB soldering, software: CAD, Matlab, python, Windows
- Position is multidisciplinary in physics, engineering, RF, computing, manufacturing
- Candidates with related skills in business, marketing, and/or operations are encouraged