Alexander J. Horvath – CEO

EDUCATION

University of Connecticut Graduate Student in Materials Science and Engineering (PhD.)	May 2027
University of Wisconsin – Madison Bachelor of Science in Materials Science and Engineering	May 2019
 Lee Lab – University of Connecticut Dept. Of Materials Science and Engineering 01/22 - Nanoindentation of intermetallic compounds, and composite materials. FIB milling, fabrication of micropillars, micropillar compression experiments Data analysis of hysteresis behavior XRD of intermetallic compounds, morphology / plane determination Crystal growth of intermetallic compounds 	Present
 Zoet and Marcott Labs – University of Wisconsin–Madison Sept. Designed experiments for measurement of activation energy of stress mechanisms in glacial ice. equipment using variety of hand tools and machine shop equipment. Collection and processing of glacial erratic samples from the Adirondack Mountains Graduate level coursework in glacial mechanics and attended graduate seminars in regional glac 	'14 – May '19 Fabricated ial geology.
 Advanced Coursework in Materials Science and Engineering Transport Phenomenon, Structures of Materials, Thermodynamics of Materials Failure Analysis, Materials Characterization, Ceramics, Classical Atomic-level simulations Undergraduate: Calculus III, Linear Algebra & Differential Equations, Statics, Dynamics, Mecha 	nics of Materials

Deformations of Solids, Electrical Optical & Magnetic (EOM) Properties of Materials, Glacier Mechanics (Geosciences), General Physics, Statistics, Capstone (Steels Processing), others.

RECOGNITION

Hilldale-Holstrom Undergraduate Research Fellowship Material Properties of Debris-Laden Ice05/2	2016
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The Minerals, Metals & Materials Society (speaker) *Tension-Compression Asymmetry of BCC metals* 03/2024

WORK EXPERIENCE

Amazon Logistics (AMZL) Manager Full-time (40+ hours) - Nashua, NH06/2020 - 06/2021

PROFESSIONAL SKILLS, SOFTWARE KNOWLEDGE

MATLAB, LAMMPS, EXCEL: Data analysis, molecular dynamics simulation.

XRD, FIB, PFIB, Micropillar Compression, Nanoindentation: Sample preparation and characterization / testing

DSC, FT-IR, powder XRD, Sputtering Chambers: Familiarity with materials testing and fabrication equipment

SEM, TEM, HRTEM, Optical Microscopy: Experienced user in electron microscopy equipment.

EXTRACURRICULAR

UCONN Concert Band and Jazz Combos	Tenor Saxophonist and Bass Clarinetist	01/22 - present
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UW-Madison Rowing 13th in 3rd Varsity Eight at 2014 IRA regatta

09/13-01/15