

CAPABILITY STATEMENT

Core Capabilities

- **Coastal, Hydraulic, and Flood Analysis**
Flood risk, sea level rise, storm surge, and extreme event assessment for coastal, tidal, and riverine systems, including evaluation of drainage, outfall, and waterway interaction affecting infrastructure performance and resilience.
- **Numerical Modeling and Metocean Analysis**
Hydrodynamic, hydraulic, and metocean analysis supported by environmental and oceanographic data to inform planning, design, risk evaluation, and infrastructure decision-making in coastal and marine settings.
- **Waterfront, Shoreline, and Marine Infrastructure Support**
Technical support for shoreline, waterfront, port, and marine infrastructure projects, including coastal engineering analysis, field-based assessments, dredging assessment, navigation-related evaluation, sediment management support, construction and rehabilitation support, and living shoreline and shoreline stabilization applications.
- **Resilience Planning for Transportation and Urban Corridors**
Integration of resilience and vulnerability considerations into transportation, bridge, roadway, and urban corridor planning where assets interact with tidal systems, waterways, and coastal processes.
- **Environmental, Permitting, and Compliance Support**
Support for coastal permitting, dredging and in-water work permitting, environmental compliance, inspections, reporting, and related stormwater, MS4, and TMDL efforts tied to engineering design and project implementation.
- **Technical Documentation and Multidisciplinary Project Support**
Structured technical reporting, proposal-phase support, and coordination across engineering, environmental, and construction teams to strengthen project delivery from pursuit through implementation.

Value to Prime Consultants

- Flexible engagement as a niche subconsultant
- Responsive, principal-level delivery
- Independent, technically rigorous analysis
- Rapid Coastal Infrastructure Assessment
- Clear and defensible engineering documentation

Company Information

Neelon Engineering Solutions, LLC

Germantown, Maryland

Amin Iliia, Principal, 15+ years of experience

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