Concurrent Programming Project Proposal

ECEN 4003

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For my concurrent programming project, I plan to implement a concurrent, wait-free hash table. I will do my implementation in C++, with the focus on benchmarking various methods for manual memory management.

The Boost library provides functionality for threading, thread-safe data structures, locks, and atomic registers. If time permits, I will also explore hardware-level atomic operations, and benchmark these against the provided data structures from Boost.