From: Academic Dean and Provost

Subj: TRIDENT SCHOLARS FOR ACADEMIC YEAR 2019-2020

Ref: (a) ACDEANINST 1531.68C

1. Purpose. To publish the list of Trident Scholars approved for AY 2019-2020 in accordance with reference (a).

2. Information. Approval is hereby granted for the following 9 midshipmen to conduct their proposed projects as Trident Scholars:

Class of 2020 Trident Scholars

1. **MIDSHIPMAN 2/C KADEN C. DOHM**
   1st Company
   Aerospace Engineering (Astro) Major
   *Optimizing Deflagration and Structural Properties of Aluminum-Rich Paraffin-Based Hybrid Rocket Motors*
   Advisor: Associate Professor Jin Kang – Aerospace Engineering

2. **MIDSHIPMAN 2/C TIMOTHY J. FORMAN**
   26th Company
   Computer Science Major
   *Improving the Security of Android Unlock Patterns with New Iterations of the Standard Pattern Lock Interface*
   Advisor: Assistant Professor Adam J. Aviv – Computer Science

3. **MIDSHIPMAN 2/C JOHN M. HANLING**
   8th Company
   Computer Science Major
   *Proofs of Retrievability with Low Server Storage*
   Advisor: Associate Professor Daniel S. Roche – Computer Science

4. **MIDSHIPMAN 2/C CHRISTIAN E. HOFFMAN**
   29th Company
   Chemistry Major
   *Advancing the Synthesis of Polyionic Biocomposite Materials by the Natural Fiber Welding Process*
   Advisors: Professor Paul Trulove – Chemistry
5. MIDSHIPMAN 2/C CHRISTOPHER D. JELLEN
Mechanical Engineering Major
A Machine Learning Model for Prediction of Low-altitude Laser Beam Propagation
Advisors: Associate Professor John Burkhardt – Mechanical Engineering
Associate Professor Cody J. Brownell – Mechanical Engineering

6. MIDSHIPMAN 2/C JAMIE W. LEE
Computer Science Major
Oblivious K-Nearest Neighbors for Secure Map Applications
Advisors: Assistant Professor Adam J. Aviv – Computer Science
Associate Professor Daniel S. Roche – Computer Science
Assistant Professor Travis Mayberry – Cyber Science

7. MIDSHIPMAN 2/C JONATHAN P. PECK
Mechanical Engineering Major
Characterization of the Far-Wake of a 6:1 Prolate Spheroid
Advisor: LCDR Ethan Lust, USN – Mechanical Engineering

8. MIDSHIPMAN 2/C CLAYTON S. PELZER
Mechanical Engineering Major
The Effects of Accelerating Flow on Film Cooling in Gas Turbine Engines
Advisors: Professor Ralph Volino – Mechanical Engineering
Assistant Professor Ronald Warzoha – Mechanical Engineering

9. MIDSHIPMAN 2/C AIDAN J. SABETYMASS
Mathematics (Honors) Major
Decision Problems in Computational Group Theory
Advisor: Associate Professor Kostya Medynets – Mathematics

Signature

A.T. PHILLIPS

Distribution:
All Non-Mids ( Electronically)