



THE QUARTERLY GRANITE

3Q21



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FOLLOW US ON
SOCIAL MEDIA

WWW.DOVERSPARK.ORG

MEET THE INTERNS



1ST LT STEVE MILLER
UNIT: 3 AS
BEDROCK PODCAST
WEB DEVELOPMENT



TSGT LLOYD HARRINGTON
UNIT: 436 MXO
CAD/3D PRINTING
DATA SCIENCE



SRA RANDY HALL
UNIT: 436 APS
COMPUTER SCIENCE
PENETRATION HACKING

A BEDROCK ADIEU



SSGT PETE CANNIZZARO
PETE SERVED AS CTO/NCOIC FROM JAN 2019-
MAR 2020. HE RETURNED TO THE PROGRAM
THIS PAST SUMMER AS BEDROCK'S CHIEF OF
R&D. WE WISH YOU SUCCESS IN RETIREMENT!



SSGT ALEXANDER FEITH-TIONGSON
SSGT FEITH SERVED AS CTO FROM AUG 2020-
OCT 2021. HE WILL REMAIN A BEDROCK
AMBASSADOR AS HE RETURNS TO THE
FLIGHTLINE AS A C-5M MAINTAINER.

02

INNOVATOR OF THE QUARTER

SSGT ROBERT JENSEN
436TH FORCE SUPPORT SQUADRON



SSGT JENSEN PARTICIPATED IN THE 2021 AMC SPARK TANK CAMPAIGN. HIS IDEA WAS THE IMPLEMENTATION OF A COMMERCIAL OFF-THE-SHELF APPLICATION TO INCREASE EFFICIENCY OF DOD CHILD DEVELOPMENT CENTERS. HIS SOLUTION WOULD SAVE DOVER AFB \$11,000 ANNUALLY.

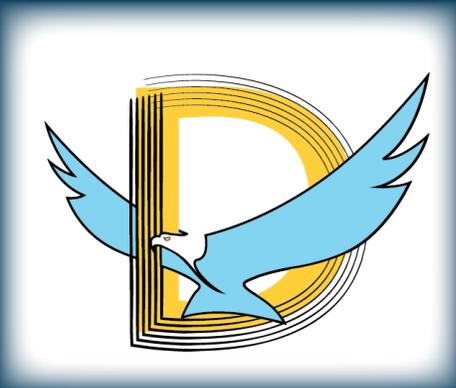
CHECK OUT HIS SUBMISSION ON THE GAIN WEBSITE AT [HTTPS://GAIN.APPS.DSO.MIL/TOPIC/DETAIL/DEFAULT/2/PARTICIPATE/2/SUGGESTION/80/DETAIL](https://gain.apps.dso.mil/topic/detail/default/2/participate/2/suggestion/80/detail).

PAST EVENTS

03

OSI TECH-PROTECT MISSION

A SPECIAL DIVISION OF OSI
MET WITH BEDROCK TO
DISCUSS THEIR MISSION AND
PARTNER WITH THE TEAM. THIS
NEW OSI DIVISION
SPECIALIZES IN PROTECTING
NEW DOD TECHNOLOGIES
FROM ADVERSARIAL
INTERFERENCE.



EAGLE REACH

436 AW LEADERSHIP TOWN
HALL SERIES





DE WINS!
VACCINE INCENTIVE PROGRAM
DOVER AIRMEN GET A CHANCE TO WIN PRIZES
SSGT ALEX FEITH, BEDROCK



THE STATE OF DELAWARE INITIATED A COVID-19 VACCINE INCENTIVE PROGRAM, DE WINS!, IN JUNE 2021. THE GOVERNOR'S OFFICE OFFERED TO INCLUDE BASE MEMBERS IN THE LOTTERY WHO HAD NOT BEEN ENROLLED AT OFF BASE VACCINE LOCATIONS. THE WING ENLISTED BEDROCK'S HELP TO OFFER PARTICIPATION TO THE BASE POPULATION. BEDROCK CODED AND PUBLISHED A LINK OFF OF OUR WEBSITE, DOVERSPARK.ORG, WHERE OVER 160 MEMBERS VOLUNTARILY ENROLLED IN THE STATE'S LOTTERY.



MODIFIED C-5 BATTERY EXTRACTION TOOL

05

PROJECT MANAGER:
SSGT WOODARD, 436 MXS

DESIGNED BY:
SRA WALKER, MSGT GOERSS, SSGT FEITH, MSGT VAZQUEZ, AND TSGT HARRINGTON

THE 436 MXS E&E BACKSHOP REQUESTED MODIFICATION OF A C-17 BATTERY EXTRACTION TOOL FOR USE WITH THE C-5. THE BATTERY CELL EXTRACTION TOOL (BCET) WAS FIRST DEVELOPED BY A TEAM LED BY SMSGT TINGLE AT MCCHORD AFB FOR USE WITH THE C-17 AIRCRAFT BATTERY.

SRA WALKER MODIFIED THE TECHNICAL DRAWING, AND MSGT GOERSS COORDINATED WITH THE FABRICATION FLIGHT TO PRODUCE THE MACHINED COMPONENTS.

CURRENT LABOR REQUIREMENT:

**2-3 AIRMEN
1.5-2 HOURS**

BCET LABOR REQUIREMENT:

**1 AIRMAN
3-5 MINUTES**

APPROXIMATE COST SAVING:

**1-2 AIRMEN/NCO
(\$33.01+ AVERAGED PER HOUR)**

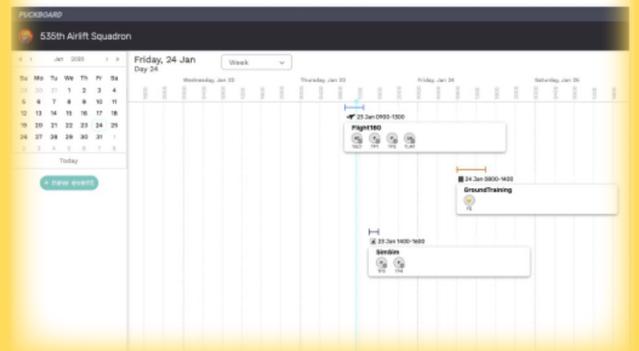
CALCULATED OFF 436 FSS MANPOWER OFFICE FIGURES



PUCKBOARD DISPLAYS

06

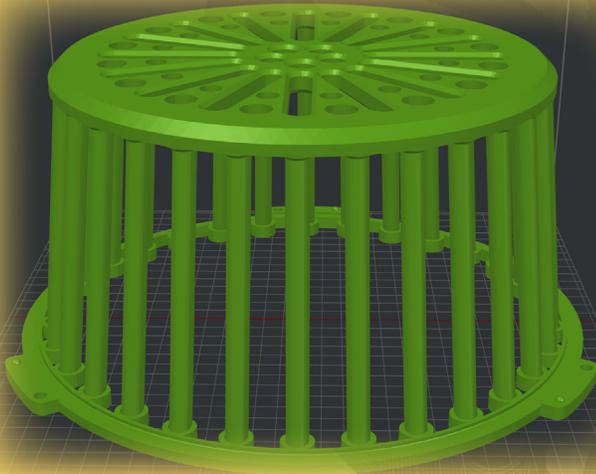
THE 3RD AIRLIFT SQUADRON IS TRANSITIONING TO DIGITAL SCHEDULING USING THE PUCKBOARD APPLICATION. TO FULLY MIGRATE, THE SQUADRON PROCURED THREE LARGE MONITORS TO REPLACE LEGACY WHITE BOARDS. THE BEDROCK TEAM LOANED RASPBERRY PIS TO THE SQUADRON TO EASILY DISPLAY CONTENT FOR MEMBERS OF THE OPERATIONS TEAM.



THE RASPBERRYPI IS A MICRO-COMPUTER ROUGHLY AS LARGE AS A DECK OF CARDS. THE SMALL SIZE AND HIGH-POWER NATURE OF THESE COMPUTERS IS A FORCE MULTIPLIER FOR AN AGILE AND MULTI-CAPABLE AIRCREW SCHEDULER.

CIVIL ENGINEERING BUILDING GRATE

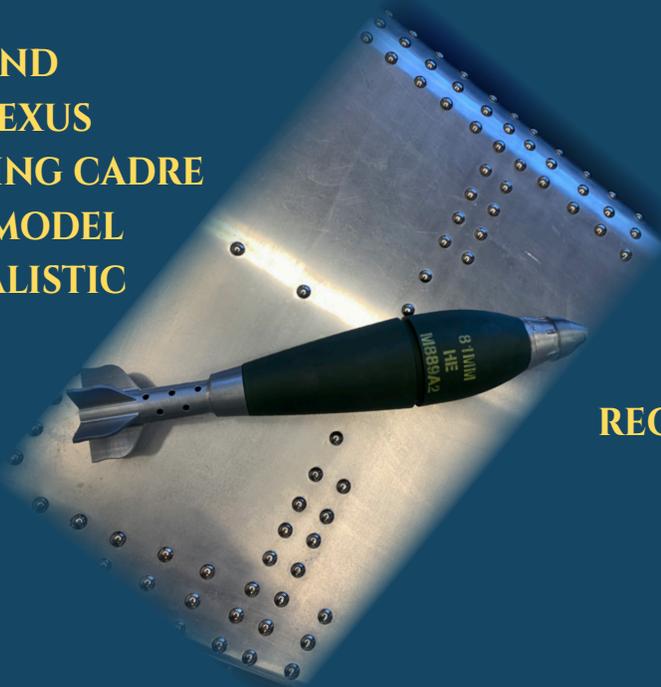
07



THE 436TH CIVIL ENGINEERING SQUADRON NEEDED PROTECTIVE GRATES THAT ARE NO LONGER COMMERCIALY AVAILABLE. THE BEDROCK ADDITIVE MANUFACTURING TEAM DESIGNED A FUNCTIONAL PROTOTYPE. THE PROTOTYPE IS CURRENTLY UNDERGOING WEATHER AND MATERIAL STRESS TESTING.

MORTAR SHELL

THE TACTICS AND LEADERSHIP NEXUS (TALN) TRAINING CADRE REQUESTED A MODEL UXO WITH REALISTIC APPEARANCE.



THE UXO IS MODELLED ON AN 81MM MORTAR SHELL. THE REALISTIC MORTAR SHELL REPLICA WILL ENHANCE THE TRAINING AND FAMILIARITY OF TALN TRAINEES WITH RECOGNITION OF DANGEROUS UNEXPLODED ORDINANCE.

MUSEUM GAUGES

08

THE AMC MUSEUM COMMISSIONED BEDROCK'S SERVICES TO REPLICATE AERONAUTICAL GAUGE FACE COVERS FOR LEGACY AIRCRAFT THAT ARE NOT AVAILABLE ON THE OPEN MARKET.

BEDROCK'S ADDITIVE MANUFACTURING TEAM REPLICATED THE GAUGE FACES WITH SEVERAL DIFFERENT POLYMERS.

BEDROCK COLLABORATED WITH THE AMC MUSEUM TO AID THEIR MISSION TO PRESERVE AMC'S HERITAGE.

THE AMC MUSEUM IS HOME TO 130,000 ANNUAL VISITORS.

HAND SANITIZER TRAYS

THE 436 MDG REQUESTED 12 CUSTOM HAND SANITIZER TRAYS. THE NECESSARY TRAYS .

BEDROCK USED A COMBINATION OF SILICON MOLDS AND 3D SCANNING TECHNIQUES TO REPLICATE AN EXISTING TRAY DOWN TO FINEST DETAIL, THUS ENSURING THAT THE TRAYS WOULD INTEGRATE INTO THE DISPENSERS WITHOUT DIFFICULTY.



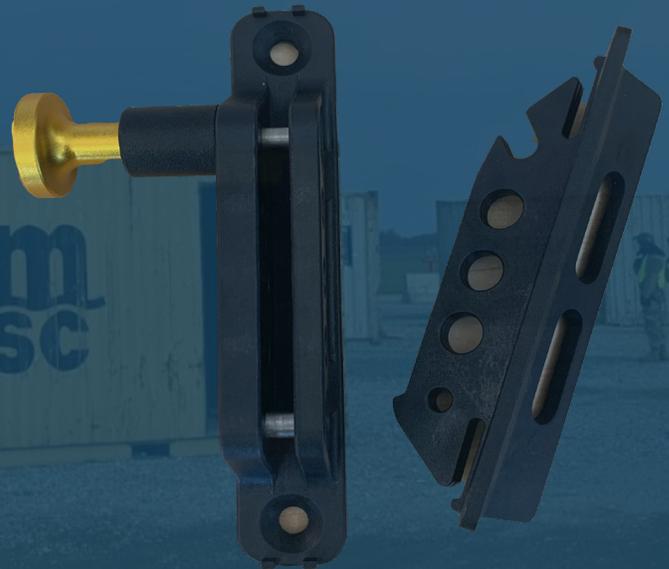
FIRE EXTINGUISHER MOUNT

09

MSGT JAMES GOERSS, 436 MXS

THE TACTICS AND LEADERSHIP NEXUS (TALN) TRAINING CADRE REQUESTED A FIRE EXTINGUISHER MOUNT CAPABLE OF BEING INSTALLED ON A UNIQUELY DIFFICULT SURFACE INSIDE THE TRAINING AREA.

BEDROCK CREATED A FUNCTIONAL DRAWING AND PRODUCED A PROTOTYPE, IMPROVING SAFETY CONCERNS AT THE TALN TRAINING SITE.



RAPCON TABLET RACK

THE 436 OSS RAPCON TRACKS AND COMPLETES THEIR TRAINING ON NEWLY-ACQUIRED TABLETS. THE TABLET RACK OFFERS THEM EASY STORAGE AND ACCESSIBILITY FOR AIR TRAFFIC CONTROL TRAINING AND EDUCATION.

BEDROCK ASSEMBLED AND MODIFIED THE STORAGE RACK TO BE ABLE TO CHARGE THE TABLETS.



PODCASTS

10



DEFENDING YOUR RIGHTS: WHAT THE AREA DEFENSE COUSEL PROVIDES AIRMEN

AREA DEFENSE COUNSEL CAPT ESHAWN RAWLEY SITS DOWN WITH MSGT JASON SMITH, 436 MXG FIRST SERGEANT, TO DISCUSS THE ROLE OF THE ADC FOR ALL AIRMEN. THE CONVERSATION TOUCHES ON THE ROLE OF THE ADC, RESPONSIBILITIES OF AIRMEN, AND CREATIVITY IN DEFENSE ARGUMENTS.



TACKLING ADVERSITY: NAVAL ACADEMY TO THE NATIONAL FOOTBALL LEAGUE

CAMERON KINLEY, USNA '21, JOINS THE BEDROCK PODCAST TO TALK ABOUT HIS EXPERIENCE AS CLASS PRESIDENT AND FOOTBALL TEAM CAPTAIN ON HIS JOURNEY TO THE NFL.



APPLE



SPOTIFY



GOOGLE PODCASTS