Page 4

THE BATTALION Thursday, June 6, 1968 College Station. Texas

Computer Theory Taught By 'Adam'

neering and computer science graduate students have designed and built a computer - a first for them — and named it Adam.

In this instance. Adam stands for automatic digital arithmetic machine. Assistant Professor Thomas Rhyne said the computer is limited in accuracy and flexibility, but noted that its construction has helped students grasp basics of computer theory.

"Truthfully, the machine is an all-student project," Rhyne remarked.

Seven graduate students designed and constructed the computer in six hours of class and identical time in the laboratory. 'Some of 'em fudged a little,"

Rhyne grinned. "They worked on their own over the weekend and spent extra time in the lab." The student engineers attacked

the problem in three divisions to simulate an industrial situation.

John Berk of Nanticoke, Pa., Edward Travis of San Antonio and A. S. Rao of Bangalore, India, tackled the arithmetic section.

Controls were the assignment of James Byram aand Wallis Mc-Math of Bryan and Augustine Chang of Dallas. Sandy A. Scalco of Meridian, Miss., worked on waiting.

HELP WANTED

W OPEN

At Texas A&M, electrical engi- input-output. That's data, instructions and computed results. Rhyne said the computer can handle nine basic instructions. It adds, substracts and multiplies. "We plan to add a little intellect to the machine each semester," Rhyne pointed out. "Maybe next year we can program a computer to multiply automatically, reducing time now required.'

Adam, like some women contend about their husband, doesn't have a memory. A student fulfilled the memorization chore this spring. Even he had to write bits of information on paper and feed the knowledgehungry Adam.

Like all men, Adam is not long for this world. He's to be torn to pieces this fall. From his parts, possibly like Adam's rib, a fancier mechine will be built by future EE365 classes.

Adam is worth about \$2,500 compared to almost \$1 for chemical ingredients of a man in this inflation-oriented era.

There's no doubt about it. The more sophisticated machine to be constructed next year, one that has a good memory and does everything but sweep out, already has its name ready and



DETERMINED MONEY-MINDER Juan Lopez started his college career with \$5 in his pocket and recently graduated with honors here and with money to spare in the bank.

Bolyard To Chair MSC Camera Club

chair summer activities of the Memorial Student Center Camera Committee

Summer meetings in the same MSC rooms will be on June 10 7:30 p.m. in Rooms 3B and 3C and 24, July 15 and 29 and Aug. of the MSC.

Dale Bolyard of La Marque will 12, Black added. Bolyard is a senior architecture major.

Chairman Bill Black of Pratt. Kan., said Bolvard will assume Kan., said Bolyard will assume duties after the committee's last semester meeting Monday, at ShrimpHarvesting

Student Makes Good Despite Money Problems First Year

lege student who frequently came to Texas A&M in the fall writes home for a handout from Dad doesn't apply to Juan De Dios Lopez of San Diego, Texas. Here is a young man who not only has worked his way through college — Texas A&M — but has a small sum in the bank after all expenses.

Couple this with the fact that he has won the designation of "Distinguished Student" every semester, and he fills the best requirements for a hometownboy-makes-good type of story.

LOPEZ WAS graduated May 25 with honors and with a BS degree in entomology, the study of insects. In those four years, his grade point ratio averaged 2.68 out of a possible 3. This means that his grade record each semester was dominated by A's.

He can look back on a college career that has known triumphs and despair, tempered with hard work.

The fledgling entomologist is the youngest son of Mr. and Mrs. Juan De Lopez of San Diego. He has a sister, Maria Herminia, and a brother, Arnoldo.

With some financial help from

AidedBy'Sweeper'

Shrimp de jonghe, souffles, non-selective in catch, require

unloading.

The popular image of the col- his father and brother, Lopez USDA at Brownsville the new summer. As a junior, he waited table of 1964. Although he managed again. At the end of the school to get a job as a waiter in Duncan year, he was named head waiten thi Dining Hall on campus, things

darkened in a hurry. waiter, he met many dignitaries "I HAD BEEN here two weeks who came to eat with the Come and had \$5," he recalled. "I was of Cadets, including A&M Presi. homesick, discouraged and about dent Earl Rudder. The John ready to go home when Dean Charles Koerth, Jr., Scholarship Potts called me in and presented of \$300 was awarded him during me a Sears Foundation Scholarthis period. ship for \$300." The award was the turning

point. Dr. R. C. Potts is associate

dean of agriculture at A&M and spends considerable time looking out for promising students with money troubles. More than a few Aggies, penniless at the time,, owe their college educations to jobs and scholarships arranged by the dean.

The following summer, Lopez found work at the U. S. Department of Agriculture Entomology Research Division at Brownsville. CAME HIS sophomore year, the student returned to his wait-

er job in the dining hall and found himself the recipient of a Darnell Scholarship of \$900 at \$300 a year. It was back to the

considerable maintenance and

must be hauled to the surface for

and Flechtner believe many

shrimping operations - from lo-

water to be swept up by a 15-

Channeled into a bag-type re-

chine, the shrimp pass over an-

other series of holes that "grade"

the harvest, returning the small-

er crustaceans to the ocean floor.

placed shrimp receptacle is de-

for dumping while the trawler

an airplane wing, the receptacle

and aerodynamic principles of

The remotely detached and re-

Dennehy, de Steiguer, Dudek

versities and Colleges. During the semester just end ed, he was one of four Men Award recipients for seniors in

In his senior year as head

Lopez must have been a wizard

at budgeting his time. While

holding down the head waiter job,

he also went to work at the uni-

versity's Entomology Research

The entomologist figures he

As a student, Lopez was a

member of the A&M Corps of

Cadets, Entomology Club, Fresh.

man Agricultural Society, Ph

Kappa Phi, chancellor of Alpha

Zeta, secretary of the Agricul-

tural Council, interpreter for the

Student Conference on National

Affairs (SCONA), and is listed

in "Who's Who in American Uni-

has earned about \$4,000 in his

four years at A&M.

Laboratory.

the College of Agriculture. Dean Potts said he rememb when Lopez came to his office for consultations. For maximum us of time, the student always brought a book or class notes to study while he waited in the outer office to see the dean.

"It's this kind of determina tion and spirit that has led to Juan's success," Potts pointed out. "I think that just about any young man who is willing to study hard and work and saw his money can get a college education.'

cating shrimp to dressing and refrigerating the delicacy — **DrawingWorkshop Slated This Week**

> Thirty teachers from 18 Texas junior colleges are participating in a technical drawing workshop this week at Texas A&M.

> Purposes of the sessions are to discuss common problems and to suggest means of improving con tent of course programs, Dr. James H. Earle, associate professor in charge of Engineering Graphics, said.

> Included in the programs are talks by R. D. Furay, Ling Temco Vought Aerospace Corporation, Bryan engineers Jack Godwin, John W. Hall, and Bill Kellett, and Texas A&M faculty members including Assistant En-gineering Dean Clifford Ransdell and Profs. North Bardell, Michael P. Guerard, Richard Vogel and Earle of the Engineering Graphics Department.

COL. FLOYD A. LAMBERT of the Electronics Institute and Professor Edward Romieniec of the Department of Archite

BA WANT AD RATES FOR RENT SPECIAL NOTICE

Small furnished room, close to campus at North Gate. 846-2275 after 5:30. 587t1 Furnished two bedroom brick apartment, entral air and heat, private patio. Two locks from campus, 823-8181. 587tfn Furnished two bedroom home, couple only available June 17, 846-7037 or 846-4717 587+6 itions are available immediately for hone operators at Texas A&M Univer-Telephone operator's experience pre-l, but not required. 40 hour week, be willing to work rotating shifts. 7 University Personnel Office, room ystem Administration Building. An opportunity employer. 587t1 COLLEGE HULS: Across from A&M olf course, 1 bedroom, nicely furnished pt., ample closet space & A/C. Adults 1. soft without utilities, Phone 846-5031. Recently renovated apt. for rent, unfurn, space for animals. 1814 Fin Feather Rd. Water & Butane furn. Contact W. F. Davis, 822-3518. HAIRDRESSER—guaranteed salary, paid vacation ,five day week. 822-1419 days, 822-7588 nights. 587tfn For small family; 4 new 2 bedroom, all electric brick apts. Central heat & air, refrigerator & stove furnished. Pasture available for horses. 8 miles from College, Willborn area FM 2158. \$100 month plus utilities. Call 846-4392. 714 Broadmore, 586t2 Part-time job available, living quarters furnished, \$75.00 per month. Call Mr. Zieren, Memorial Funeral Chapel, 823-8125. 587t1 Capable Aggie needed for summer job 2814 Cavitt. Call 822-8535 or 822-4548. 586t3 Unfurnished 1 bedroom house near A&M. Fenced yard with trees. 402 Cooner. 846-855t2 Babysitter wanted for church group. 846-6734. 855tfn Wanted, two registered nurses for su-ervisor on 3 to 11 shift at Madison County ospital, Madisonville, Texas. Excellent lary. Call collect, DI 8-2631, Miss Gloria ice or Mr. E. G. Clark. 465tfn THE BRYAN ARMS APARTMENTS SUMMER WORK-Earn \$7.00 per hour ... over \$50.00 a day. Be your own boss, work where you want, when you want. How much you make depends on you. This is a product everyone needs and wants ... A Zip Code Directory. For your free sample and complete de-tails send us your Home and School addresses. Zip Code Publishing Com-pany, Inc., 7426 W. Capitol Drive, Mil-waukee, Wisconsin 53216. 587t3 "Congenial Living" Separate Adult & Family Areas "Children Welcome" Model Apts. Open For Inspection From \$120 - All Utilities Paid

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OFFICIAL NOTICE

Official notices must arrive in the Office f Student Publications before deadline of p.m. of the day preceeding publication. Students wishing to place a 1967 AGGIE-LAND in their high school may pick them up in the office of Student Publications, Services Building. 548tfn

THE GRADUATE COLLECE Final Examination for the Doctoral Degree Name: Jones, Billy Ray Degree: Doctor of Philosophy in Geology Dissertation: Geology of the Southern Quitman Mountains and Vicinity, Huds-peth County, Texas. Time: June 6, 1968, 1:00 p. m. Place: Room 103-A, Geology Bidg. Wayne C. Hall Dean of Graduate Studies

Quitr peth Time : Place :

THE GRADUATE COLLECE THE GRADUATE COLLECE Final Examination for the Doctoral Degree Name: DeShazo, Mary Davison Degree: Doctor of Philosophy, Biochemistry and Biophysics Dissertation: The Proteolytic Enzymes of Aeromonas Proteolytica. Time: June 7, 1968, 2:00 p. m. Place: Room 306, Herman F. Heep Bldg. Wayne C. Hall Dean of Graduate Studies

FOR SALE

One National adding machine hand oper-ated, 8 column with substraction, like new. \$75.00. One Remington printing calcula-tor electric, semi-automatic. \$125.00. One Underwood Olivetti adding machine, elec-tric, 13 column with substraction and carries creditbalance like new. \$175.00. Call 822-0216 after 5:30. 587t1 Good used tin, Gentle colt green broke & addle. Call 822-3980.

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1967 Corvette Sport Coupe 427, air, AM/FM, power steering, etc. \$3850, Con-tact Jim Byram, 846-5196 after 5:00 p. m. 582t6

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1966 Galaxie 500 XL, Emberglo-Parch-ment Interior, Low mileage, 390, V-8, 4-speed, Air, new WSW tires, tinted glass, bucket scats, console, radio, delux wheel covers, \$2350. Calvert Motors, Calvert, Texas EM 4-2884. 577tfn

1964 Super Sport Impala Convertible Phite - Black Interior, low mileage, 327 -8, 4-speed, air, new WSW tires, tinter lass, bucket seats, console, tachometer dio, delux wheel covers, \$1795. Calver lotors, Calvert, Texas. 577tfr

owner, three bedroom 1½ bath, brick aura Lane, C.S. Central heat and air. led Den and Kitchen. Two blocks from Elementary school. Large lot. May ne existing 6% loan. 846-5577. 573tfn

SOSOLIK'S

TRY BATTALION CLASSIFIED

and other shrimp dishes may be come common menu choices with the entry of aerospace, mechanical and civil engineering into shrimping operations. Texas A&M graduates in those

creole, casseroles, hors d'oeuvres

fields have a new idea for removing the whiskered crustacean from the ocean floor.

tems engineering a "bottom oriented shrimp harvester' the four students believe will more than double production of present

product of the interdisciplinary Dennehy of College Station; Allen de Steiguer, Lampasas; Conrad Dudek, Detroit, Mich., and Robert Flechtner, Rennselaer. N. Y

to replace nets on shrimp trawl-ers' tow cables. It takes advantage of the fact that shrimp feed at night and burrow during the day.

BOSH will allow shrimpers to work 24 hours a day. Shrimp signed to be lifted to the surface boats using nets must work only in darkness, when shrimp leave and BOSH are under way. Like ocean floor burrows to feed.

"Research on the feeding and burrowing habits of shrimp will be required before final designs life, drag, gravity resistance to

could be modernized. Shaped much like the old wheeled floor sweeper, their steel They've contrived through sysalloy harvester employs several engineering principles to increase shrimp harvest. BOSH HAS a series of tapered shrimping methods. "BOSH," as they call it, is the holes on its front edge to force a jet of water-produced by for-

ward movement of the vehicle onto the sea floor. The agitation, thinking and research of Bart they believe, will cause shrimp to pop from the ocean floor into the foot wide rubber-lipped mouth. ceptacle on the back of the ma-

THE HARVESTER is designed

depends on forward movement

